



Shanghai JA Solar PV Technology Co., Ltd.
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Zhabei, Shanghai 200436

P.R.China
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Declaration of low-reflection modules

Solar modules are designed to absorb solar energy and generate electricity, all JA Solar modules are currently designed with anti-reflective front surfaces to reduce the light reflection.

JA Solar as the PV Module manufacture hereby confirms that the new modules for the Series S10, S20 and S30; the Series D30, D40 are low reflection in the sense that they have an absorption > 90%

All JA Solar customers are encouraged to consult with JA Solar technical support staff for any further question they may have.

Yours faithfully,

Shanghai JA Solar PV Technology Co., Ltd.
Global Customer Service Department

June 20th, 2023



CERTIFICATE

TÜV NORD CERT GmbH
herewith declares that

Shanghai JA Solar Technology Co., Ltd.
No. 118, Lane 3111, West Huancheng Road,
Fengxian District, Shanghai, 201401,
P.R. China

is authorized to provide the product mentioned below with the mark as illustrated:

Description of product (details see Annex 2):

Crystalline Silicon Terrestrial Photovoltaic (PV) Modules



Valid from: 2023-11-21

Valid until: 2026-09-29

Certification program:	P12-VA-01 Rev. 17 09.20
Certification fundamental(s):	IEC 61701:2020
Remark:	Test Method 6 Test duration: 1344 hours
Registered No.:	44 780 23 406749 - 191R3A2M4
Manufacturer:	see Annex 1
Test Report No.:	492012551.005
File No.:	PVP03150/23P-01



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Consumer Products

Essen, 2023-11-21



Manufacturer:

- Manufacturer 1: **Shanghai JA Solar Technology Co., Ltd.**
No. 118, Lane 3111, West Huancheng Road, Fengxian District
Shanghai 201401, P.R. China
Factory inspection report no.: 862010153.011
- Manufacturer 2: **Hefei JA Solar Technology Co., Ltd.**
No. 999, Chang Ning Road, Hi-tech Zone, Hefei
230088, P.R. China
Factory inspection report no.: 862010241.010
- Manufacturer 3: **JA Solar (Xingtai) Co., Ltd.**
No. 1688, Chang An Road, Xingtai Economic Development Area
Xingtai City, Hebei Province, 054001, P.R. China
Factory inspection report no.: 862010290.008
- Manufacturer 4: **JA Solar New Energy Yangzhou Co., Ltd.**
No.1, Jianhua Road, Economic Development Zone
Yangzhou, Jiangsu Province, 225000, P.R. China
Factory inspection report no.: 862010496.004
- Manufacturer 5: **Yiwu JA Solar Technology Co., Ltd.**
No. 165, Tongze Road, Yiting Town, Yiwu City,
Zhejiang Province, 322000, P.R. China.
Factory inspection report no.: 862010513.004
- Manufacturer 6: **JA Solar Viet Nam Company Limited**
Lot G, Quang Chau Industrial Zone, Quang Chau Commune
Viet Yen Dist, 236110 Bac Giang Province, VIETNAM.
Factory inspection report no.: 862010560.003
- Manufacturer 7: **JA Solar New Energy Yangzhou Co., Ltd. (Jingshan Park)**
No.123, Jinshan Road, Economic Development Zone,
Yangzhou, Jiangsu Province, 225127, P.R. China
Factory inspection report no.: 862010584.003



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Manufacturer 8: **HSA ENERJI A.S.**
OSB III. Kisim Keciliköy OSB Mah., Mustafa Kemal Bulvari No:15/1.,
45030 Yunusemre – Manisa, TURKEY

Factory inspection report no.: 862010735.001

Manufacturer 9: **Dongtai JA Solar Technology Co., Ltd.**
No.8 Zaofeng North Road, Dongtai High-tech Zone, Dongtai City, 224248
Yancheng City, Jiangsu Province, PEOPLE'S REPUBLIC OF CHINA

Factory inspection report no.: 862010802.001

Manufacturer 10: **QuJing JA Solar Technology Co., Ltd.**
North of Nanhai Avenue and East of Senxi Road, Economic and
Technological Development Zone, 655000 Qujing City, Yunnan Province,
PEOPLE'S REPUBLIC OF CHINA

Factory inspection report no.: 862010866.001

Remark:

Factory inspection is mandatory to be performed annually. Please refer to factory inspection report for detailed information.



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Description of product(s):

Module types:

PV Modules with Mono-crystalline Silicon Solar Cells (156mm to 158.75mm):

72 cells: JAM6(L)-72- xxx (xxx=295-335, in steps of 5)
72 cells: JAM6-72- xxx/SI (xxx=285-325, in steps of 5)
72 cells: JAM6(R)-72-xxx (xxx=295-340, in steps of 5)
72 cells: JAM6(R)-72-xxx/PR (xxx=330-350, in steps of 5)
72 cells: JAM6-72-xxx/PR (xxx=325-345, in steps of 5)
72 cells: JAM6(L)-72-xxx/PR (xxx=325-345, in steps of 5)
72 cells: JAM6(K)-72-xxx/4BB (xxx=320-345, in steps of 5)
72 cells: JAM6(K)-72-xxx/PR (xxx=325-370, in steps of 5)
72 cells: JAM72S02-xxx/PR (xxx=325-390, in steps of 5)
72 cells: JAM72S01-xxx/PR/1000V (xxx=345-390, in steps of 5)
72 cells: JAM72S01-xxx/SC/1000V (xxx=320-365, in steps of 5)
72 cells: JAM72S01-xxx/MR/1000V (xxx=365-385, in steps of 5)
72 cells: JAM72S09-xxx/PR/1000V (xxx=370-405, in steps of 5)
72 cells: JAM72S09-xxx/BP/1000V (xxx=375-385, in steps of 5)
72 cells: JAM72S02-xxx/PR/1000V (xxx=345-390, in steps of 5)
72 cells: JAM72S02-xxx/SC/1000V (xxx=320-365, in steps of 5)
72 cells: JAM72S02-xxx/MR/1000V (xxx=365-385, in steps of 5)
72 cells: JAM72S12-xxx/PR/1000V (xxx=365-385, in steps of 5)
60 cells: JAM6(L)-60-xxx (xxx=255-280, in steps of 5)
60 cells: JAM6-60-xxx/SI (xxx=235-280, in steps of 5)
60 cells: JAM6(FA)-60-xxx/SI (xxx=255-275, in steps of 5)
60 cells: JAM6(R)(FA)-60-xxx (xxx=260-280, in steps of 5)
60 cells: JAM6(R)-60-xxx (xxx=255-280, in steps of 5)
60 cells: JAM6(R)-60-xxx/PR (xxx=280-300, in steps of 5)
60 cells: JAM6-60-xxx/PR (xxx=275-295, in steps of 5)
60 cells: JAM6(L)-60-xxx/PR (xxx=270-295, in steps of 5)
60 cells: JAM6(K)-60-xxx/4BB (xxx=265-285, in steps of 5)
60 cells: JAM6(K)-60-xxx/PR (xxx=275-310, in steps of 5)
60 cells: JAM60S02-xxx/PR (xxx=280-325, in steps of 5)
60 cells: JAM60S01-xxx/PR/1000V (xxx=285-325, in steps of 5)
60 cells: JAM60S01-xxx/SC/1000V (xxx=265-305, in steps of 5)
60 cells: JAM60S01-xxx/MR/1000V (xxx=305-320, in steps of 5)
60 cells: JAM60S09-xxx/PR/1000V (xxx=310-335, in steps of 5)
60 cells: JAM60S09-xxx/BP/1000V (xxx=315-320, in steps of 5)
60 cells: JAM60S02-xxx/PR/1000V (xxx=285-325, in steps of 5)
60 cells: JAM60S02-xxx/SC/1000V (xxx=265-305, in steps of 5)
60 cells: JAM60S02-xxx/MR/1000V (xxx=305-320, in steps of 5)



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60 cells: JAM60S12-xxx/PR/1000V (xxx=305-330, in steps of 5)
48 cells: JAM6(FA)-48-xxx/SI (xxx=205-220, in steps of 5)
48 cells: JAM6(R)(FA)-48-xxx (xxx=210-225, in steps of 5)
48 cells: JAM6(R)-48-xxx/PR (xxx=220-235, in steps of 5)
48 cells: JAM6-48-xxx/PR (xxx=215-235, in steps of 5)
48 cells: JAM6(L)-48-xxx/PR (xxx=215-235, in steps of 5)
48 cells: JAM6(K)-48xxx/4BB (xxx=210-225, in steps of 5)
48 cells: JAM6(K)-48-xxx/PR (xxx=220-235, in steps of 5)

Maximum system voltage: 1000V
Fuse rating: 20A
Application class: Class A
Electrical protection class: Class II

Module types: **PV Modules with 125mm Mono-crystalline Silicon Solar Cells:**

72 cells: JAM5-72-xxx/SI (xxx=180-210, in steps of 5)
72 cells: JAM5(L)-72-xxx/SI (xxx=180-220, in steps of 5)
72 cells: JAM5(R)-72-xxx (xxx=195-220, in steps of 5)

Maximum system voltage: 1000V
Fuse rating: 10A
Application class: Class A
Electrical protection class: Class II

Module types: **PV Modules with Mono-crystalline Silicon half-cut Solar Cells (156mm to 158.75mm):**

72 cells: JAM72S03-xxx/PR/1000V (xxx=360-395, in steps of 5)
72 cells: JAM72S10-xxx/PR/1000V (xxx=380-410, in steps of 5)
72 cells: JAM72S10-xxx/BP/1000V (xxx=385-400, in steps of 5)
72 cells: JAM72S10-xxx/MR/1000V (xxx=390-430, in steps of 5)
72 cells: JAM72S10-xxx/MB/1000V (xxx=395-415, in steps of 5)
72 cells: JAM72S08-xxx/PR/1000V (xxx=360-395, in steps of 5)
72 cells: JAM72S17-xxx/PR/1000V (xxx=380-390, in steps of 5)
72 cells: JAM72S17-xxx/MR/1000V (xxx=390-430, in steps of 5)
72 cells: JAM72S17-xxx/GR/1000V (xxx=385-400, in steps of 5)
60 cells: JAM60S03-xxx/PR/1000V (xxx=300-330, in steps of 5)
60 cells: JAM60S10-xxx/PR/1000V (xxx=315-345, in steps of 5)
60 cells: JAM60S10-xxx/BP/1000V (xxx=320-330, in steps of 5)
60 cells: JAM60S10-xxx/MR/1000V (xxx=325-355, in steps of 5)
60 cells: JAM60S10-xxx/MB/1000V (xxx=330-345, in steps of 5)



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60 cells: JAM60S08-xxx/PR/1000V (xxx=300-330, in steps of 5)
60 cells: JAM60S17-xxx/PR/1000V (xxx=315-325, in steps of 5)
60 cells: JAM60S17-xxx/MR/1000V (xxx=315-355, in steps of 5)
78 cells: JAM78S10-xxx/MR/1000V (xxx=435-465, in steps of 5)
66 cells: JAM66S10-xxx/MR/1000V (xxx=345-390, in steps of 5)

Maximum system voltage: 1000V
Fuse rating: 20A
Application class: Class A
Electrical protection class: Class II

Module types: **PV Modules with Mono-crystalline Silicon half-cut Solar Cells (166mm to 168mm):**

72 cells: JAM72S20-xxx/MR/1000V (xxx=430-470, in steps of 5)
72 cells: JAM72S20-xxx/MB/1000V (xxx=450-465, in steps of 5)
60 cells: JAM60S20-xxx/MR/1000V (xxx=355-390, in steps of 5)
60 cells: JAM60S21-xxx/MR/1000V (xxx=355-390, in steps of 5)
60 cells: JAM60S20-xxx/MB/1000V (xxx=375-390, in steps of 5)

Maximum system voltage: 1000V
Fuse rating: 25A
Application class: Class A
Electrical protection class: Class II

Module types: **PV Modules with 182mm Mono-crystalline Silicon half-cut Solar Cells:**

60 cells: JAM60S30-xxx/MR/1000V (xxx=435-460, in steps of 5)
66 cells: JAM66S30-xxx/MR/1000V (xxx=470-510, in steps of 5)
72 cells: JAM72S30-xxx/MR/1000V (xxx=510-560, in steps of 5)
78 cells: JAM78S30-xxx/MR/1000V (xxx=580-605, in steps of 5)
54 cells: JAM54S30-xxx/MR/1000V (xxx=390-425, in steps of 5)
78 cells: JAM78S30-xxx/GR/1000V (xxx=575-610, in steps of 5)
72 cells: JAM72S30-xxx/GR/1000V (xxx=510-560, in steps of 5)
66 cells: JAM66S30-xxx/GR/1000V (xxx=500-510, in steps of 5)
60 cells: JAM60S30-xxx/GR/1000V (xxx=445-470, in steps of 5)
54 cells: JAM54S30-xxx/GR/1000V (xxx=400-420, in steps of 5)
72 cells: JAM72S31-xxx/MR/1000V (xxx=510-545, in steps of 5)
66 cells: JAM66S31-xxx/MR/1000V (xxx=470-500, in steps of 5)
60 cells: JAM60S31-xxx/MR/1000V (xxx=425-450, in steps of 5)
54 cells: JAM54S31-xxx/MR/1000V (xxx=385-415, in steps of 5)



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78 cells: JAM78S31-xxx/GR/1000V (xxx=570-590, in steps of 5)

72 cells: JAM72S31-xxx/GR/1000V (xxx=525-545, in steps of 5)

66 cells: JAM66S31-xxx/GR/1000V (xxx=480-500, in steps of 5)

60 cells: JAM60S31-xxx/GR/1000V (xxx=435-450, in steps of 5)

54 cells: JAM54S31-xxx/GR/1000V (xxx=395-415, in steps of 5)

72 cells: JAM72S40-xxx/GR/1000V (xxx=540-575, in steps of 5)

66 cells: JAM66S40-xxx/GR/1000V (xxx=495-525, in steps of 5)

60 cells: JAM60S40-xxx/GR/1000V (xxx=450-480, in steps of 5)

54 cells: JAM54S40-xxx/GR/1000V (xxx=405-430, in steps of 5)

72 cells: JAM72S41-xxx/GR/1000V (xxx=540-570, in steps of 5)

66 cells: JAM66S41-xxx/GR/1000V (xxx=495-525, in steps of 5)

60 cells: JAM60S41-xxx/GR/1000V (xxx=450-475, in steps of 5)

54 cells: JAM54S41-xxx/GR/1000V (xxx=405-430, in steps of 5)

72 cells: JAM72S30-xxx/LR/1000V (xxx=555-580, in steps of 5)

54 cells: JAM54S30-xxx/LR/1000V (xxx=415-435, in steps of 5)

54 cells: JAM54S31-xxx/LR/1000V (xxx=415-425, in steps of 5)

54 cells: JAM54S30-xxx/MB/1000V (xxx=385-410, in steps of 5)

54 cells: JAM54S31-xxx/MB/1000V (xxx=385-405, in steps of 5)

54 cells: JAM54S30-xxx/LB/1000V (xxx=410-425, in steps of 5)

54 cells: JAM54S31-xxx/LB/1000V (xxx=410-415, in steps of 5)

Maximum system voltage: 1000V

Fuse rating: 25A

Application class: Class A

Electrical protection class: Class II

Module types: **PV Modules with 210mm Mono-crystalline Silicon 1/3-cut Solar Cells:**

50 cells: JAM50S40-xxx/MR/1000V (xxx=490-500, in steps of 5)

66 cells: JAM66S35-xxx/MR/1000V (xxx=650-670, in steps of 5)

60 cells: JAM60S35-xxx/MR/1000V (xxx=590-610, in steps of 5)

Maximum system voltage: 1000V

Fuse rating: 25A

Application class: Class A

Electrical protection class: Class II



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Module types: **PV Modules with 182mm Mono-crystalline Silicon 1/5-cut Solar Cells:**
76 cells: JAM76S11-xxx/PR(B)/1000V (xxx=395-415, in steps of 5)

Maximum system voltage: 1000V

Fuse rating: 25A

Application class: Class A

Electrical protection class: Class II

Module types: **PV Modules with Poly-crystalline Silicon Solar Cells (156mm to 158.75mm):**

72 cells: JAP6-72-xxx/3BB (xxx=250-330, in steps of 5)

72 cells: JAP6-72-xxx/4BB (xxx=305-330, in steps of 5)

72 cells: JAP6-72-xxx/RE (xxx=305-330, in steps of 5)

72 cells: JAP6-72-xxx/4BB/RE (xxx=305-330, in steps of 5)

72 cells: JAP6(K)-72-xxx/4BB (xxx=310-330, in steps of 5)

72 cells: JAP72S01-xxx/SC/1000V (xxx=310-345, in steps of 5)

72 cells: JAP72S01-xxx/PR/1000V (xxx=330-345, in steps of 5)

72 cells: JAP72S09-xxx/SC/1000V (xxx=320-345, in steps of 5)

72 cells: JAP72S01-xxx/MS/1000V (xxx=325-340, in steps of 5)

72 cells: JAP72S02-xxx/SC/1000V (xxx=310-345, in steps of 5)

72 cells: JAP72S02-xxx/PR/1000V (xxx=330-345, in steps of 5)

60 cells: JAP6-60-xxx/3BB (xxx=240-275, in steps of 5)

60 cells: JAP6(FA)-60-xxx/3BB (xxx=250-270, in steps of 5)

60 cells: JAP6-60-xxx/4BB (xxx=250-275, in steps of 5)

60 cells: JAP6-60-xxx/RE (xxx=255-280, in steps of 5)

60 cells: JAP6-60-xxx/4BB/RE (xxx=255-280, in steps of 5)

60 cells: JAP6(K)-60-xxx/4BB (xxx=255-275, in steps of 5)

60 cells: JAP60S01-xxx/SC/1000V (xxx=255-290, in steps of 5)

60 cells: JAP60S01-xxx/PR/1000V (xxx=275-285, in steps of 5)

60 cells: JAP60S09-xxx/SC/1000V (xxx=265-290, in steps of 5)

60 cells: JAP60S01-xxx/MS/1000V (xxx=270-280, in steps of 5)

60 cells: JAP60S02-xxx/SC/1000V (xxx=255-290, in steps of 5)

60 cells: JAP60S02-xxx/PR/1000V (xxx=275-285, in steps of 5)

54 cells: JAP54S01-xxx/SC (xxx=245-255, in steps of 5)

48 cells: JAP6(FA)-48-xxx/3BB (xxx=200-220, in steps of 5)

48 cells: JAP6-48-xxx/3BB (xxx=200-220, in steps of 5)

Maximum system voltage: 1000V

Fuse rating: 20A



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Application class: Class A
Electrical protection class: Class II
Module types: **PV Modules with Poly-crystalline Silicon half-cut Solar Cells (156mm to 158.75mm):**

72 cells: JAP72S03-xxx/SC/1000V (xxx=320-345, in steps of 5)
72 cells: JAP72S03-xxx/PR/1000V (xxx=335-355, in steps of 5)
72 cells: JAP72S10-xxx/SC/1000V (xxx=335-350, in steps of 5)
72 cells: JAP72S03-xxx/MS/1000V (xxx=320-345, in steps of 5)
72 cells: JAP72S08-xxx/SC/1000V (xxx=320-345, in steps of 5)
72 cells: JAP72S08-xxx/PR/1000V (xxx=335-355, in steps of 5)
60 cells: JAP60S03-xxx/SC/1000V (xxx=270-290, in steps of 5)
60 cells: JAP60S03-xxx/PR/1000V (xxx=280-295, in steps of 5)
60 cells: JAP60S10-xxx/SC/1000V (xxx=275-290, in steps of 5)
60 cells: JAP60S03-xxx/MS/1000V (xxx=270-285, in steps of 5)
60 cells: JAP60S08-xxx/SC/1000V (xxx=270-290, in steps of 5)
60 cells: JAP60S08-xxx/PR/1000V (xxx=280-295, in steps of 5)

Maximum system voltage: 1000V

Fuse rating: 20A

Application class: Class A

Electrical protection class: Class II

Module types: **PV Modules with Mono-crystalline Silicon Solar Cells (156mm to 158.75mm):**

72 cells: JAM6(K)-72-xxx/PR/1500V (xxx=345-370, in steps of 5)
72 cells: JAM6(K)-72-xxx/4BB/1500V (xxx=320-345, in steps of 5)
72 cells: JAM72S01-xxx/PR (xxx=345-390, in steps of 5)
72 cells: JAM72S01-xxx/SC/1500V (xxx=320-365, in steps of 5)
72 cells: JAM72S01-xxx/MR/1500V (xxx=365-385, in steps of 5)
72 cells: JAM72S09-xxx/PR/1500V (xxx=370-405, in steps of 5)
72 cells: JAM72S09-xxx/BP/1500V (xxx=375-385, in steps of 5)
72 cells: JAM72S02-xxx/PR/1500V (xxx=345-390, in steps of 5)
72 cells: JAM72S02-xxx/SC/1500V (xxx=320-365, in steps of 5)
72 cells: JAM72S02-xxx/MR/1500V (xxx=365-385, in steps of 5)
72 cells: JAM72S12-xxx/PR/1500V (xxx=365-385, in steps of 5)
60 cells: JAM6(K)-60-xxx/PR/1500V (xxx=285-310, in steps of 5)
60 cells: JAM6(K)-60-xxx/4BB/1500V (xxx=265-285, in steps of 5)
60 cells: JAM60S01-xxx/PR/1500V (xxx=285-325, in steps of 5)
60 cells: JAM60S01-xxx/SC/1500V (xxx=265-305, in steps of 5)



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60 cells: JAM60S01-xxx/MR/1500V (xxx=305-320, in steps of 5)
60 cells: JAM60S09-xxx/PR/1500V (xxx=310-335, in steps of 5)
60 cells: JAM60S09-xxx/BP/1500V (xxx=315-320, in steps of 5)
60 cells: JAM60S02-xxx/PR/1500V (xxx=285-325, in steps of 5)
60 cells: JAM60S02-xxx/SC/1500V (xxx=265-305, in steps of 5)
60 cells: JAM60S02-xxx/MR/1500V (xxx=305-320, in steps of 5)
60 cells: JAM60S12-xxx/PR/1500V (xxx=305-330, in steps of 5)
72 cells: JAM6(K)(DG)-72-xxx/PR/1500V (xxx=330-365, in steps of 5)
72 cells: JAM6(K)(DG)-72-xxx/4BB/1500V (xxx=320-340, in steps of 5)
72 cells: JAM72D00-xxx/PR (xxx=340-385, in steps of 5)
72 cells: JAM72D00-xxx/PR/1500V (xxx=340-385, in steps of 5)
72 cells: JAM72D00-xxx/SC (xxx=320-340, in steps of 5)
72 cells: JAM72D00-xxx/BP (xxx=330-385, in steps of 5)
72 cells: JAM72D00-xxx/BP/1500V (xxx=330-385, in steps of 5)
72 cells: JAM72D00-xxx/MB (xxx=370-380, in steps of 5)
72 cells: JAM72D00-xxx/MB/1500V (xxx=370-380, in steps of 5)
72 cells: JAM72D09-xxx/BP (xxx=360-400, in steps of 5)
72 cells: JAM72D09-xxx/BP/1500V (xxx=360-400, in steps of 5)
60 cells: JAM6(DG)-60-xxx/1500V (xxx=250-270, in steps of 5)
60 cells: JAM6(K)(DG)-60-xxx/4BB/1500V (xxx=260-285, in steps of 5)
60 cells: JAM6(K)(DG)-60-xxx/PR/1500V (xxx=270-305, in steps of 5)
60 cells: JAM6(DG)-60-xxx/4BB/1500V (xxx=260-280, in steps of 5)
60 cells: JAM60D00-xxx/PR (xxx=285-320, in steps of 5)
60 cells: JAM60D00-xxx/PR/1500V (xxx=285-320, in steps of 5)
60 cells: JAM60D00-xxx/SC (xxx=260-285, in steps of 5)
60 cells: JAM60D00-xxx/BP (xxx=275-320, in steps of 5)
60 cells: JAM60D00-xxx/BP/1500V (xxx=275-320, in steps of 5)
60 cells: JAM60D00-xxx/MB (xxx=310-315, in steps of 5)
60 cells: JAM60D00-xxx/MB/1500V (xxx=310-315, in steps of 5)
60 cells: JAM60D09-xxx/BP (xxx=300-340, in steps of 5)
60 cells: JAM60D09-xxx/BP/1500V (xxx=300-340, in steps of 5)

Maximum system voltage: 1500V
Fuse rating: 20A
Application class: Class A
Electrical protection class: Class II



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Module types:

PV Modules with Mono-crystalline Silicon half-cut Solar Cells (156mm to 158.75mm):

72 cells: JAM72S03-xxx/PR/1500V (xxx=360-395, in steps of 5)
72 cells: JAM72S10-xxx/PR/1500V (xxx=380-410, in steps of 5)
72 cells: JAM72S10-xxx/BP/1500V (xxx=385-400, in steps of 5)
72 cells: JAM72S10-xxx/MR/1500V (xxx=390-430, in steps of 5)
72 cells: JAM72S10-xxx/MB/1500V (xxx=395-415, in steps of 5)
72 cells: JAM72S08-xxx/PR/1500V (xxx=360-395, in steps of 5)
72 cells: JAM72S17-xxx/PR/1500V (xxx=380-390, in steps of 5)
72 cells: JAM72S17-xxx/MR/1500V (xxx=390-430, in steps of 5)
72 cells: JAM72S17-xxx/GR/1500V (xxx=385-400, in steps of 5)
60 cells: JAM60S03-xxx/PR/1500V (xxx=300-330, in steps of 5)
60 cells: JAM60S10-xxx/PR/1500V (xxx=315-345, in steps of 5)
60 cells: JAM60S10-xxx/BP/1500V (xxx=320-330, in steps of 5)
60 cells: JAM60S10-xxx/MR/1500V (xxx=325-355, in steps of 5)
60 cells: JAM60S10-xxx/MB/1500V (xxx=330-345, in steps of 5)
60 cells: JAM60S20-xxx/MR/1500V (xxx=355-390, in steps of 5)
60 cells: JAM60S21-xxx/MR/1500V (xxx=355-390, in steps of 5)
60 cells: JAM60S08-xxx/PR/1500V (xxx=300-330, in steps of 5)
60 cells: JAM60S17-xxx/PR/1500V (xxx=315-325, in steps of 5)
60 cells: JAM60S17-xxx/MR/1500V (xxx=315-355, in steps of 5)
78 cells: JAM78S10-xxx/MR/1500V (xxx=435-465, in steps of 5)
66 cells: JAM66S10-xxx/MR/1500V (xxx=345-390, in steps of 5)
72 cells: JAM72D10-xxx/MB (xxx=385-430, in steps of 5)
72 cells: JAM72D10-xxx/MB/1500V (xxx=385-430, in steps of 5)
60 cells: JAM60D10-xxx/MB (xxx=320-355, in steps of 5)
60 cells: JAM60D10-xxx/MB/1500V (xxx=320-355, in steps of 5)
72 cells: JAM72D10-xxx/BP (xxx=385-415, in steps of 5)
72 cells: JAM72D10-xxx/BP/1500V (xxx=385-415, in steps of 5)
60 cells: JAM60D10-xxx/BP (xxx=320-345, in steps of 5)
60 cells: JAM60D10-xxx/BP/1500V (xxx=320-345, in steps of 5)
78 cells: JAM78D10-xxx/MB (xxx=435-455, in steps of 5)
78 cells: JAM78D10-xxx/MB/1500V (xxx=435-455, in steps of 5)
66 cells: JAM66D10-xxx/MB (xxx=360-380, in steps of 5)
66 cells: JAM66D10-xxx/MB/1500V (xxx=360-380, in steps of 5)
72 cells: JAM72D20-xxx/MB (xxx=430-465, in steps of 5)
72 cells: JAM72D20-xxx/MB/1500V (xxx=430-465, in steps of 5)
60 cells: JAM60D20-xxx/MB (xxx=355-385, in steps of 5)
60 cells: JAM60D20-xxx/MB/1500V (xxx=355-385, in steps of 5)
72 cells: JAM72D10-xxx/TB (xxx=400-420, in steps of 5)



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72 cells: JAM72D10-xxx/TB/1500V (xxx=400-420, in steps of 5)
60 cells: JAM60D10-xxx/TB (xxx=335-350, in steps of 5)
60 cells: JAM60D10-xxx/TB/1500V (xxx=335-350, in steps of 5)

Maximum system voltage: 1500V
Fuse rating: 20A
Application class: Class A
Electrical protection class: Class II

Module types: **PV Modules with Mono-crystalline Silicon half-cut Solar Cells (166mm to 168mm):**

72 cells: JAM72S20-xxx/MR/1500V (xxx=430-470, in steps of 5)
72 cells: JAM72S20-xxx/MB/1500V (xxx=450-465, in steps of 5)
60 cells: JAM60S20-xxx/MB/1500V (xxx=375-390, in steps of 5)

Maximum system voltage: 1500V
Fuse rating: 25A
Application class: Class A
Electrical protection class: Class II

Module types: **PV Modules with 182mm Mono-crystalline Silicon half-cut Solar Cells:**

78 cells: JAM78S30-xxx/MR/1500V (xxx=580-605, in steps of 5)
72 cells: JAM72S30-xxx/MR/1500V (xxx=510-560, in steps of 5)
66 cells: JAM66S30-xxx/MR/1500V (xxx=470-510, in steps of 5)
60 cells: JAM60S30-xxx/MR/1500V (xxx=435-460, in steps of 5)
54 cells: JAM54S30-xxx/MR/1500V (xxx=390-425, in steps of 5)
78 cells: JAM78S30-xxx/MR/1500V (xxx=575-610, in steps of 5)
78 cells: JAM78S30-xxx/GR/1500V (xxx=575-600, in steps of 5)
72 cells: JAM72S30-xxx/GR/1500V (xxx=510-560, in steps of 5)
66 cells: JAM66S30-xxx/GR/1500V (xxx=500-510, in steps of 5)
60 cells: JAM60S30-xxx/GR/1500V (xxx=445-470, in steps of 5)
54 cells: JAM54S30-xxx/GR/1500V (xxx=400-420, in steps of 5)
72 cells: JAM72S31-xxx/MR/1500V (xxx=510-545, in steps of 5)
66 cells: JAM66S31-xxx/MR/1500V (xxx=470-500, in steps of 5)
60 cells: JAM60S31-xxx/MR/1500V (xxx=425-450, in steps of 5)
54 cells: JAM54S31-xxx/MR/1500V (xxx=385-415, in steps of 5)
78 cells: JAM78S31-xxx/GR/1500V (xxx=575-590, in steps of 5)
72 cells: JAM72S31-xxx/GR/1500V (xxx=525-545, in steps of 5)
66 cells: JAM66S31-xxx/GR/1500V (xxx=480-500, in steps of 5)



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60 cells: JAM60S31-xxx/GR/1500V (xxx=435-450, in steps of 5)
54 cells: JAM54S31-xxx/GR/1500V (xxx=395-415, in steps of 5)
72 cells: JAM72S40-xxx/GR/1500V (xxx=540-575, in steps of 5)
66 cells: JAM66S40-xxx/GR/1500V (xxx=495-525, in steps of 5)
60 cells: JAM60S40-xxx/GR/1500V (xxx=450-480, in steps of 5)
54 cells: JAM54S40-xxx/GR/1500V (xxx=405-430, in steps of 5)
72 cells: JAM72S41-xxx/GR/1500V (xxx=540-570, in steps of 5)
66 cells: JAM66S41-xxx/GR/1500V (xxx=495-525, in steps of 5)
60 cells: JAM60S41-xxx/GR/1500V (xxx=450-475, in steps of 5)
54 cells: JAM54S41-xxx/GR/1500V (xxx=405-430, in steps of 5)
72 cells: JAM72S30-xxx/LR/1500V (xxx=555-580, in steps of 5)
54 cells: JAM54S30-xxx/LR/1500V (xxx=415-435, in steps of 5)
54 cells: JAM54S31-xxx/LR/1500V (xxx=415-425, in steps of 5)
54 cells: JAM54S30-xxx/MB/1500V (xxx=385-410, in steps of 5)
54 cells: JAM54S31-xxx/MB/1500V (xxx=385-405, in steps of 5)
54 cells: JAM54S30-xxx/LB/1500V (xxx=410-425, in steps of 5)
54 cells: JAM54S31-xxx/LB/1500V (xxx=410-415, in steps of 5)
78 cells: JAM78D30-xxx/MB (xxx=580-605, in steps of 5)
78 cells: JAM78D30-xxx/MB/1500V (xxx=580-605, in steps of 5)
72 cells: JAM72D30-xxx/MB (xxx=505-560, in steps of 5)
72 cells: JAM72D30-xxx/MB/1500V (xxx=505-560, in steps of 5)
72 cells: JAM72D30-xxx/MB/F (xxx=505-560, in steps of 5)
72 cells: JAM72D30-xxx/MB/F/1500V (xxx=505-560, in steps of 5)
66 cells: JAM66D30-xxx/MB (xxx=465-505, in steps of 5)
66 cells: JAM66D30-xxx/MB/1500V (xxx=465-505, in steps of 5)
66 cells: JAM66D30-xxx/MB/F (xxx=465-505, in steps of 5)
66 cells: JAM66D30-xxx/MB/F/1500V (xxx=465-505, in steps of 5)
60 cells: JAM60D30-xxx/MB (xxx=435-460, in steps of 5)
60 cells: JAM60D30-xxx/MB/1500V (xxx=435-460, in steps of 5)
54 cells: JAM54D30-xxx/MB (xxx=390-415, in steps of 5)
54 cells: JAM54D30-xxx/MB/1500V (xxx=390-415, in steps of 5)
54 cells: JAM54D31-xxx/MB (xxx=395-400, in steps of 5)
54 cells: JAM54D31-xxx/MB/1500V (xxx=395-400, in steps of 5)
78 cells: JAM78D30-xxx/GB (xxx=585-610, in steps of 5)
78 cells: JAM78D30-xxx/GB/1500V (xxx=585-610, in steps of 5)
72 cells: JAM72D30-xxx/GB (xxx=505-560, in steps of 5)
72 cells: JAM72D30-xxx/GB/1500V (xxx=505-560, in steps of 5)
66 cells: JAM66D30-xxx/GB (xxx=495-510, in steps of 5)
66 cells: JAM66D30-xxx/GB/1500V (xxx=495-510, in steps of 5)
60 cells: JAM60D30-xxx/GB (xxx=450-470, in steps of 5)



60 cells: JAM60D30-xxx/GB/1500V (xxx=450-470/1500V, in steps of 5)
54 cells: JAM54D30-xxx/GB (xxx=405-420, in steps of 5)
54 cells: JAM54D30-xxx/GB/1500V (xxx=405-420, in steps of 5)
54 cells: JAM54D31-xxx/GB (xxx=410-420, in steps of 5)
54 cells: JAM54D31-xxx/GB/1500V (xxx=410-420, in steps of 5)
72 cells: JAM72D30-xxx/HB (xxx=530-560, in steps of 5)
72 cells: JAM72D30-xxx/HB/1500V (xxx=530-560, in steps of 5)
72 cells: JAM72D30-xxx/TB (xxx=540-580, in steps of 5)
72 cells: JAM72D30-xxx/TB/1500V (xxx=540-580, in steps of 5)
78 cells: JAM78D40-xxx/MB (xxx=580-630, in steps of 5)
78 cells: JAM78D40-xxx/MB/1500V (xxx=580-630, in steps of 5)
72 cells: JAM72D40-xxx/MB (xxx=540-585, in steps of 5)
72 cells: JAM72D40-xxx/MB/1500V (xxx=540-585, in steps of 5)
66 cells: JAM66D40-xxx/MB (xxx=500-535, in steps of 5)
66 cells: JAM66D40-xxx/MB/1500V (xxx=500-535, in steps of 5)
60 cells: JAM60D40-xxx/MB (xxx=455-485, in steps of 5)
60 cells: JAM60D40-xxx/MB/1500V (xxx=455-485, in steps of 5)
54 cells: JAM54D40-xxx/MB (xxx=405-440, in steps of 5)
54 cells: JAM54D40-xxx/MB/1500V (xxx=405-440, in steps of 5)
78 cells: JAM78D40-xxx/GB (xxx=580-635, in steps of 5)
78 cells: JAM78D40-xxx/GB/1500V (xxx=580-635, in steps of 5)
72 cells: JAM72D40-xxx/GB (xxx=540-585, in steps of 5)
72 cells: JAM72D40-xxx/GB/1500V (xxx=540-585, in steps of 5)
66 cells: JAM66D40-xxx/GB (xxx=500-535, in steps of 5)
66 cells: JAM66D40-xxx/GB/1500V (xxx=500-535, in steps of 5)
60 cells: JAM60D40-xxx/GB (xxx=455-485, in steps of 5)
60 cells: JAM60D40-xxx/GB/1500V (xxx=455-485, in steps of 5)
54 cells: JAM54D40-xxx/GB (xxx=405-440, in steps of 5)
54 cells: JAM54D40-xxx/GB/1500V (xxx=405-440, in steps of 5)
54 cells: JAM54D41-xxx/GB (xxx=415-435, in steps of 5)
54 cells: JAM54D41-xxx/GB/1500V (xxx=415-435, in steps of 5)
72 cells: JAM72D40-xxx/LB (xxx=575-600, in steps of 5)
72 cells: JAM72D40-xxx/LB/1500V (xxx=575-600, in steps of 5)
54 cells: JAM54D40-xxx/LB (xxx=420-450, in steps of 5)
54 cells: JAM54D40-xxx/LB/1500V (xxx=420-450, in steps of 5)
54 cells: JAM54D41-xxx/LB (xxx=420-440, in steps of 5)
54 cells: JAM54D41-xxx/LB/1500V (xxx=420-440, in steps of 5)
72 cells: JAM72D42-xxx/LB (xxx=590-635, in steps of 5)
72 cells: JAM72D42-xxx/LB/1500V (xxx=590-635, in steps of 5)
54 cells: JAM54D42-xxx/LB (xxx=455-470, in steps of 5)



54 cells: JAM54D42-xxx/LB/1500V (xxx=455-470, in steps of 5)
72 cells: JAM72D30-xxx/LB (xxx=555-575, in steps of 5)
72 cells: JAM72D30-xxx/LB/1500V (xxx=555-575, in steps of 5)
54 cells: JAM54D30-xxx/LB (xxx=420-430, in steps of 5)
54 cells: JAM54D30-xxx/LB/1500V (xxx=420-430, in steps of 5)
66 cells: JAM66D42-xxx/MB (xxx=540-585, in steps of 5)
66 cells: JAM66D42-xxx/MB/1500V (xxx=540-585 in steps of 5)
78 cells: JAM78D49-xxx/LB (xxx=585-610, in steps of 5)
78 cells: JAM78D49-xxx/LB /1500V (xxx=585-610, in steps of 5)

Maximum system voltage: 1500V
Fuse rating: 25A or 30A
Application class: Class A
Electrical protection class: Class II

Module types: **PV Modules with 210mm Mono-crystalline Silicon 1/3-cut Solar Cells:**

50 cells: JAM50S40-xxx/MR/1500V (xxx=490-500, in steps of 5)
50 cells: JAM50D40-xxx/MB (xxx=485-500, in steps of 5)
50 cells: JAM50D40-xxx/MB/1500V (xxx=485-500, in steps of 5)

Maximum system voltage: 1500V
Fuse rating: 25A
Application class: Class A
Electrical protection class: Class II

Module types: **PV Modules with 210mm Mono-crystalline Silicon 1/2-cut Solar Cells:**

66 cells: JAM66S35-xxx/MR/1500V (xxx=650-670, in steps of 5)
60 cells: JAM60S35-xxx/MR/1500V (xxx=590-610, in steps of 5)
66 cells: JAM66D35-xxx/MB (xxx=650-665, in steps of 5)
66 cells: JAM66D35-xxx/MB/1500V (xxx=650-665, in steps of 5)
60 cells: JAM60D35-xxx/MB (xxx=590-605, in steps of 5)
60 cells: JAM60D35-xxx/MB/1500V (xxx=590-605, in steps of 5)
66 cells: JAM66D45-xxx/LB (xxx=585-610, in steps of 5)
66 cells: JAM66D45-xxx/LB /1500V (xxx=585-610, in steps of 5)

Maximum system voltage: 1500V
Fuse rating: 25A
Application class: Class A



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Electrical protection class: Class II

Module types: **PV Modules with 182mm Mono-crystalline Silicon 1/5-cut Solar Cells:**

76 cells: JAM76S11-xxx/PR(B)/1500V (xxx=395-415, in steps of 5)

Maximum system voltage: 1500V

Fuse rating: 25A

Application class: Class A

Electrical protection class: Class II

Module types: **PV Modules with Poly-crystalline Silicon Solar Cells (156mm to 158.75mm):**

72 cells: JAP6(K)-72-xxx/4BB/1500V (xxx=310-330, in steps of 5)

72 cells: JAP72S01-xxx/SC/1500V (xxx=310-345, in steps of 5)

72 cells: JAP72S01-xxx/PR/1500V (xxx=330-345, in steps of 5)

72 cells: JAP72S09-xxx/SC/1500V (xxx=320-345, in steps of 5)

72 cells: JAP72S01-xxx/MS/1500V (xxx=325-340, in steps of 5)

72 cells: JAP72S02-xxx/SC/1500V (xxx=310-345, in steps of 5)

72 cells: JAP72S02-xxx/PR/1500V (xxx=330-345, in steps of 5)

60 cells: JAP6(K)-60-xxx/4BB/1500V (xxx=255-275, in steps of 5)

60 cells: JAP60S01-xxx/SC/1500V (xxx=255-290, in steps of 5)

60 cells: JAP60S01-xxx/PR/1500V (xxx=275-285, in steps of 5)

60 cells: JAP60S09-xxx/SC/1500V (xxx=265-290, in steps of 5)

60 cells: JAP60S01-xxx/MS/1500V (xxx=270-280, in steps of 5)

60 cells: JAP60S02-xxx/SC/1500V (xxx=255-290, in steps of 5)

60 cells: JAP60S02-xxx/PR/1500V (xxx=275-285, in steps of 5)

72 cells: JAP6(DG)-72-xxx/4BB/1500V (xxx=305-325, in steps of 5)

72 cells: JAP6(DG)-72-xxx/3BB/1500V (xxx=305-315, in steps of 5)

72 cells: JAP6(DG)-72-xxx/4BB/RE/1500V (xxx=310-335, in steps of 5)

72 cells: JAP6(K)(DG)-72-xxx/4BB/1500V (xxx=310-335, in steps of 5)

72 cells: JAP72D00-xxx/SC (xxx=305-345, in steps of 5)

72 cells: JAP72D00-xxx/SC/1500V (xxx=310-340, in steps of 5)

72 cells: JAP72D00-xxx/PR (xxx=330-350, in steps of 5)

72 cells: JAP72D00-xxx/PR/1500V (xxx=330-345, in steps of 5)

72 cells: JAP72D09-xxx/SC (xxx=325-345, in steps of 5)

72 cells: JAP72D09-xxx/SC/1500V (xxx=330-345, in steps of 5)

60 cells: JAP6(DG)-60-xxx/4BB/1500V (xxx=250-275, in steps of 5)

60 cells: JAP6(DG)-60-xxx/3BB/1500V (xxx=245-265, in steps of 5)



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60 cells: JAP6(DG)-60-xxx/4BB/RE/1500V (xxx=255-280, in steps of 5)
60 cells: JAP6(K)(DG)-60-xxx/4BB/1500V (xxx=255-280, in steps of 5)
60 cells: JAP60D00-xxx/SC (xxx=255-290, in steps of 5)
60 cells: JAP60D00-xxx/SC/1500V (xxx=260-285, in steps of 5)
60 cells: JAP60D00-xxx/PR (xxx=275-290, in steps of 5)
60 cells: JAP60D00-xxx/PR/1500V (xxx=275-290, in steps of 5)
60 cells: JAP60D09-xxx/SC (xxx=270-290, in steps of 5)
60 cells: JAP60D09-xxx/SC/1500V (xxx=275-290, in steps of 5)

Maximum system voltage: 1500V
Fuse rating: 20A
Application class: Class A
Electrical protection class: Class II

Module types: **PV Modules with Poly-crystalline Silicon half-cut Solar Cells (156mm to 158.75mm):**

72 cells: JAP72S03-xxx/SC/1500V (xxx=320-345, in steps of 5)
72 cells: JAP72S03-xxx/PR/1500V (xxx=335-355, in steps of 5)
72 cells: JAP72S10-xxx/SC/1500V (xxx=335-350, in steps of 5)
72 cells: JAP72S03-xxx/MS/1500V (xxx=320-345, in steps of 5)
72 cells: JAP72S08-xxx/SC/1500V (xxx=320-345, in steps of 5)
72 cells: JAP72S08-xxx/PR/1500V (xxx=335-355, in steps of 5)
60 cells: JAP60S03-xxx/SC/1500V (xxx=270-290, in steps of 5)
60 cells: JAP60S03-xxx/PR/1500V (xxx=280-295, in steps of 5)
60 cells: JAP60S10-xxx/SC/1500V (xxx=275-290, in steps of 5)
60 cells: JAP60S03-xxx/MS/1500V (xxx=270-285, in steps of 5)
60 cells: JAP60S08-xxx/SC/1500V (xxx=270-290, in steps of 5)
60 cells: JAP60S08-xxx/PR/1500V (xxx=280-295, in steps of 5)

Maximum system voltage: 1500V
Fuse rating: 20A
Application class: Class A
Electrical protection class: Class II

Module types: **PV Modules with Mono-crystalline Silicon Solar Cells (156mm to 158.75mm):**

72 cells: JAM72S01-xxx/SC (xxx=320-365, in steps of 5)
72 cells: JAM72S02-xxx/SC (xxx=320-365, in steps of 5)
72 cells: JAM72S02-xxx/PR (xxx=345-390, in steps of 5)
72 cells: JAM72S01-xxx/MR (xxx=365-385, in steps of 5)



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72 cells: JAM72S02-xxx/MR (xxx=365-385, in steps of 5)
72 cells: JAM72S09-xxx/PR (xxx=370-405, in steps of 5)
72 cells: JAM72S12-xxx/PR (xxx=365-385, in steps of 5)
72 cells: JAM72S09-xxx/BP (xxx=375-385, in steps of 5)
60 cells: JAM60S01-xxx/SC (xxx=265-305, in steps of 5)
60 cells: JAM60S02-xxx/SC (xxx=265-305, in steps of 5)
60 cells: JAM60S01-xxx/PR (xxx=285-325, in steps of 5)
60 cells: JAM60S02-xxx/PR (xxx=285-325, in steps of 5)
60 cells: JAM60S01-xxx/MR (xxx=305-320, in steps of 5)
60 cells: JAM60S02-xxx/MR (xxx=305-320, in steps of 5)
60 cells: JAM60S09-xxx/PR (xxx=310-335, in steps of 5)
60 cells: JAM60S12-xxx/PR (xxx=305-330, in steps of 5)
60 cells: JAM60S09-xxx/BP (xxx=315-320, in steps of 5)

Maximum system voltage: 1000V or 1500V
Fuse rating: 20A
Application class: Class A
Electrical protection class: Class II

Module types: **PV Modules with Mono-crystalline Silicon half-cut Solar Cells (156mm to 158.75mm):**

72 cells: JAM72S03-xxx/PR (xxx=360-395, in steps of 5)
72 cells: JAM72S10-xxx/PR (xxx=380-410, in steps of 5)
72 cells: JAM72S17-xxx/PR (xxx=380-390, in steps of 5)
72 cells: JAM72S10-xxx/MR (xxx=390-430, in steps of 5)
72 cells: JAM72S17-xxx/MR (xxx=390-430, in steps of 5)
72 cells: JAM72S17-xxx/GR (xxx=385-400, in steps of 5)
72 cells: JAM72S10-xxx/BP (xxx=385-400, in steps of 5)
72 cells: JAM72S10-xxx/MB (xxx=395-415, in steps of 5)
72 cells: JAM72S08-xxx/PR (xxx=360-395, in steps of 5)
60 cells: JAM60S03-xxx/PR (xxx=300-330, in steps of 5)
60 cells: JAM60S08-xxx/PR (xxx=300-330, in steps of 5)
60 cells: JAM60S10-xxx/PR (xxx=315-345, in steps of 5)
60 cells: JAM60S10-xxx/MR (xxx=325-355, in steps of 5)
60 cells: JAM60S10-xxx/BP (xxx=320-330, in steps of 5)
60 cells: JAM60S10-xxx/MB (xxx=330-345, in steps of 5)
60 cells: JAM60S17-xxx/PR (xxx=315-325, in steps of 5)
60 cells: JAM60S17-xxx/MR (xxx=315-355, in steps of 5)
78 cells: JAM78S10-xxx/MR (xxx=435-465, in steps of 5)
78 cells: JAM78S10-xxx/MR-J (xxx=435-465, in steps of 5)



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	66 cells: JAM66S10-xxx/MR (xxx=345-390, in steps of 5)
Maximum system voltage:	1000V or 1500V
Fuse rating:	20A
Application class:	Class A
Electrical protection class:	Class II

Module types: **PV Modules with Mono-crystalline Silicon half-cut Solar Cells (166mm to 168mm):**

	72 cells: JAM72S20-xxx/MR (xxx=430-470, in steps of 5)
	72 cells: JAM72S20-xxx/MB (xxx=450-465, in steps of 5)
	60 cells: JAM60S20-xxx/MR (xxx=355-390, in steps of 5)
	60 cells: JAM60S21-xxx/MR (xxx=355-390, in steps of 5)
	60 cells: JAM60S20-xxx/MB (xxx=375-390, in steps of 5)
Maximum system voltage:	1000V or 1500V
Fuse rating:	20A
Application class:	Class A
Electrical protection class:	Class II

Module types: **PV Modules with 182mm Mono-crystalline Silicon half-cut Solar Cells:**

	78 cells: JAM78S30-xxx/MR (xxx=580-605, in steps of 5)
	72 cells: JAM72S30-xxx/MR (xxx=510-560, in steps of 5)
	66 cells: JAM66S30-xxx/MR (xxx=470-505, in steps of 5)
	60 cells: JAM60S30-xxx/MR (xxx=435-460, in steps of 5)
	54 cells: JAM54S30-xxx/MR (xxx=390-425, in steps of 5)
	78 cells: JAM78S30-xxx/GR (xxx=575-610, in steps of 5)
	72 cells: JAM72S30-xxx/GR (xxx=510-560, in steps of 5)
	66 cells: JAM66S30-xxx/GR (xxx=500-510, in steps of 5)
	60 cells: JAM60S30-xxx/GR (xxx=445-470, in steps of 5)
	54 cells: JAM54S30-xxx/GR (xxx=400-420, in steps of 5)
	72 cells: JAM72S31-xxx/MR (xxx=510-545, in steps of 5)
	66 cells: JAM66S31-xxx/MR (xxx=470-500, in steps of 5)
	60 cells: JAM60S31-xxx/MR (xxx=425-450, in steps of 5)
	54 cells: JAM54S31-xxx/MR (xxx=385-415, in steps of 5)
	78 cells: JAM78S31-xxx/GR (xxx=575-590, in steps of 5)
	72 cells: JAM72S31-xxx/GR (xxx=525-545, in steps of 5)
	66 cells: JAM66S31-xxx/GR (xxx=480-500, in steps of 5)
	60 cells: JAM60S31-xxx/GR (xxx=435-450, in steps of 5)



54 cells: JAM54S31-xxx/GR (xxx=395-415, in steps of 5)
72 cells: JAM72S40-xxx/GR (xxx=540-575, in steps of 5)
66 cells: JAM66S40-xxx/GR (xxx=495-525, in steps of 5)
60 cells: JAM60S40-xxx/GR (xxx=450-480, in steps of 5)
54 cells: JAM54S40-xxx/GR (xxx=405-430, in steps of 5)
72 cells: JAM72S41-xxx/GR (xxx=540-570, in steps of 5)
66 cells: JAM66S41-xxx/GR (xxx=495-525, in steps of 5)
60 cells: JAM60S41-xxx/GR (xxx=450-475, in steps of 5)
54 cells: JAM54S41-xxx/GR (xxx=405-430, in steps of 5)
72 cells: JAM72S30-xxx/LR (xxx=555-580, in steps of 5)
54 cells: JAM54S30-xxx/LR (xxx=415-435, in steps of 5)
54 cells: JAM54S31-xxx/LR (xxx=415-425, in steps of 5)
54 cells: JAM54S30-xxx/MB (xxx=385-410, in steps of 5)
54 cells: JAM54S31-xxx/MB (xxx=385-405, in steps of 5)
54 cells: JAM54S30-xxx/LB (xxx=410-425, in steps of 5)
54 cells: JAM54S31-xxx/LB (xxx=410-415, in steps of 5)

Maximum system voltage: 1000V or 1500V
Fuse rating: 25A
Application class: Class A
Electrical protection class: Class II

Module types: **PV Modules with 210mm Mono-crystalline Silicon 1/3-cut Solar Cells:**

50 cells: JAM50S40-xxx/MR (xxx=490-500, in steps of 5)
66 cells: JAM66S35-xxx/MR (xxx=650-670, in steps of 5)
60 cells: JAM60S35-xxx/MR (xxx=590-610, in steps of 5)

Maximum system voltage: 1000V or 1500V
Fuse rating: 25A
Application class: Class A
Electrical protection class: Class II



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Module types:	PV Modules with 182mm Mono-crystalline Silicon 1/5-cut Solar Cells: 68 cells: JAM68S11-xxx/PR (xxx=355-365, in steps of 5) 68 cells: JAM68S11-xxx/PR(B) (xxx=345-365, in steps of 5) 76 cells: JAM76S11-xxx/PR(B) (xxx=395-415, in steps of 5)
Maximum system voltage:	1000V or 1500V
Fuse rating:	25A
Application class:	Class A
Electrical protection class:	Class II

Module types:	PV Modules with Poly-crystalline Silicon Solar Cells (156mm to 158.75mm): 72 cells: JAP72S01-xxx/SC (xxx=310-345, in steps of 5) 72 cells: JAP72S02-xxx/SC (xxx=310-345, in steps of 5) 72 cells: JAP72S01-xxx/PR (xxx=330-345, in steps of 5) 72 cells: JAP72S02-xxx/PR (xxx=330-345, in steps of 5) 72 cells: JAP72S09-xxx/SC (xxx=320-345, in steps of 5) 72 cells: JAP72S01-xxx/MS (xxx=325-340, in steps of 5) 60 cells: JAP60S01-xxx/SC (xxx=255-290, in steps of 5) 60 cells: JAP60S02-xxx/SC (xxx=255-290, in steps of 5) 60 cells: JAP60S01-xxx/PR (xxx=275-285, in steps of 5) 60 cells: JAP60S02-xxx/PR (xxx=275-285, in steps of 5) 60 cells: JAP60S09-xxx/SC (xxx=265-290, in steps of 5) 60 cells: JAP60S01-xxx/MS (xxx=270-280, in steps of 5) 54 cells: JAP54S01-xxx/SC (xxx=245-255, in steps of 5)
Maximum system voltage:	1000V or 1500V
Fuse rating:	20A
Application class:	Class A
Electrical protection class:	Class II

Module types:	PV Modules with Poly-crystalline Silicon half-cut Solar Cells (156mm to 158.75mm): 72 cells: JAP72S03-xxx/PR (xxx=335-355, in steps of 5) 72 cells: JAP72S03-xxx/SC (xxx=320-345, in steps of 5) 72 cells: JAP72S10-xxx/SC (xxx=335-350, in steps of 5) 72 cells: JAP72S03-xxx/MS (xxx=320-345, in steps of 5) 72 cells: JAP72S08-xxx/SC (xxx=320-345, in steps of 5) 72 cells: JAP72S08-xxx/PR (xxx=335-355, in steps of 5)
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60 cells: JAP60S03-xxx/PR (xxx=280-295, in steps of 5)
60 cells: JAP60S03-xxx/SC (xxx=270-290, in steps of 5)
60 cells: JAP60S10-xxx/SC (xxx=275-290, in steps of 5)
60 cells: JAP60S03-xxx/MS (xxx=270-285, in steps of 5)
60 cells: JAP60S08-xxx/SC (xxx=270-290, in steps of 5)
60 cells: JAP60S08-xxx/PR (xxx=280-295, in steps of 5)

Maximum system voltage: 1000V or 1500V
Fuse rating: 20A
Application class: Class A
Electrical protection class: Class II

Remark:

For detailed product information, please refer to CDF (Constructional Data Form) in Annex 1 of test report.



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Consumer Products



Product Service

CERTIFICATE

No. Z2 072092 0295 Rev. 64

Holder of Certificate: **Shanghai JA Solar Technology Co., Ltd.**
No. 118, Lane 3111
West Huancheng Road
Fengxian District
201401 Shanghai
PEOPLE'S REPUBLIC OF CHINA

Certification Mark:



Product: **Crystalline Silicon Terrestrial Photovoltaic (PV) Modules**
Mono-Crystalline Silicon Photovoltaic Module

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the testing and certification regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.: 704061604115-79

Valid until: 2028-08-31

Date, 2023-09-01

(Zhulin Zhang)

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Model(s):

1500 V DC Maximum System Voltage, Double Glass Modules:
 JAM72D00-xxx/BP/1500V, JAM72D00-xxx/BP, xxx= 330 to 385 in steps of 5;
 JAM60D00-xxx/BP/1500V, JAM60D00-xxx/BP, xxx= 275 to 320 in steps of 5;
 JAM60D00-xxx/PR/1500V, JAM60D00-xxx/PR, xxx= 285 to 320 in steps of 5;
 JAM72D00-xxx/PR/1500V, JAM72D00-xxx/PR, xxx= 340 to 385 in steps of 5;
 JAM60D00-xxx/MB/1500V, JAM60D00-xxx/MB, xxx= 310 to 315 in steps of 5;
 JAM72D00-xxx/MB/1500V, JAM72D00-xxx/MB, xxx= 370 to 380 in steps of 5;
 JAM72D09-xxx/BP/1500V, JAM72D09-xxx/BP, xxx= 360 to 400 in steps of 5;
 JAM60D09-xxx/BP/1500V, JAM60D09-xxx/BP, xxx= 300 to 345 in steps of 5;
 JAM72D10-xxx/MB/1500V, JAM72D10-xxx/MB, xxx= 385 to 430 in steps of 5;
 JAM60D10-xxx/MB/1500V, JAM60D10-xxx/MB, xxx= 320 to 355 in steps of 5;
 JAM72D10-xxx/BP/1500V, JAM72D10-xxx/BP, xxx= 385 to 415 in steps of 5;
 JAM60D10-xxx/BP/1500V, JAM60D10-xxx/BP, xxx= 320 to 345 in steps of 5;
 JAM66D10-xxx/MB/1500V, JAM66D10-xxx/MB, xxx= 360 to 380 in steps of 5;
 JAM78D10-xxx/MB/1500V, JAM78D10-xxx/MB, xxx= 435 to 455 in steps of 5;
 JAM72D20-xxx/MB/1500V, JAM72D20-xxx/MB, xxx= 430 to 465 in steps of 5;
 JAM60D20-xxx/MB/1500V, JAM60D20-xxx/MB, xxx= 355 to 385 in steps of 5;
 JAM72D10-xxx/TB/1500V, JAM72D10-xxx/TB, xxx= 400 to 420 in steps of 5;
 JAM60D10-xxx/TB/1500V, JAM60D10-xxx/TB, xxx= 335 to 350 in steps of 5;
 JAM78D30-xxx/MB/1500V, JAM78D30-xxx/MB, xxx= 580 to 605 in steps of 5;
 JAM72D30-xxx/MB/1500V, JAM72D30-xxx/MB, xxx=505 to 555 in steps of 5;
 JAM72D30-xxx/MB/F/1500V, JAM72D30-xxx/MB/F,
 xxx=505 to 555 in steps of 5;
 JAM66D30-xxx/MB/1500V, JAM66D30-xxx/MB, xxx=465 to 505 in steps of 5;
 JAM66D30-xxx/MB/F/1500V, JAM66D30-xxx/MB/F,
 xxx=465 to 505 in steps of 5;
 JAM60D30-xxx/MB/1500V, JAM60D30-xxx/MB, xxx=435 to 460 in steps of 5;
 JAM54D30-xxx/MB/1500V, JAM54D30-xxx/MB, xxx= 390 to 415 in steps of 5;
 JAM54D31-xxx/MB/1500V, JAM54D31-xxx/MB, xxx= 395 to 400 in steps of 5;
 JAM50D40-xxx/MB/1500V, JAM50D40-xxx/MB, xxx= 485 to 500 in steps of 5;
 JAM78D30-xxx/GB/1500V, JAM78D30-xxx/GB, xxx= 585 to 610 in steps of 5;
 JAM72D30-xxx/GB/1500V, JAM72D30-xxx/GB, xxx= 540 to 560 in steps of 5;
 JAM66D30-xxx/GB/1500V, JAM66D30-xxx/GB, xxx= 495 to 510 in steps of 5;
 JAM60D30-xxx/GB/1500V, JAM60D30-xxx/GB, xxx= 450 to 470 in steps of 5;
 JAM54D30-xxx/GB/1500V, JAM54D30-xxx/GB, xxx= 405 to 420 in steps of 5;
 JAM54D31-xxx/GB/1500V, JAM54D31-xxx/GB, xxx= 410 to 420 in steps of 5;
 JAM72D30-xxx/HB/1500V, JAM72D30-xxx/HB, xxx= 530 to 560 in steps of 5;
 JAM78D40-xxx/MB/1500V, JAM78D40-xxx/MB, xxx= 580 to 630 in steps of 5;
 JAM72D40-xxx/MB/1500V, JAM72D40-xxx/MB, xxx= 540 to 585 in steps of 5;
 JAM66D40-xxx/MB/1500V, JAM66D40-xxx/MB, xxx= 500 to 535 in steps of 5;
 JAM60D40-xxx/MB/1500V, JAM60D40-xxx/MB, xxx= 455 to 485 in steps of 5;
 JAM54D40-xxx/MB/1500V, JAM54D40-xxx/MB, xxx= 405 to 440 in steps of 5;
 JAM78D40-xxx/GB/1500V, JAM78D40-xxx/GB, xxx= 580 to 635 in steps of 5;
 JAM72D40-xxx/GB/1500V, JAM72D40-xxx/GB, xxx= 540 to 585 in steps of 5;
 JAM66D40-xxx/GB/1500V, JAM66D40-xxx/GB, xxx= 500 to 535 in steps of 5;
 JAM60D40-xxx/GB/1500V, JAM60D40-xxx/GB, xxx= 455 to 485 in steps of 5;
 JAM54D40-xxx/GB/1500V, JAM54D40-xxx/GB, xxx= 405 to 440 in steps of 5;
 JAM54D41-xxx/GB/1500V, JAM54D41-xxx/GB, xxx= 415 to 435 in steps of 5;
 JAM66D35-xxx/MB/1500V, JAM66D35-xxx/MB, xxx= 650 to 665 in steps of 5;
 JAM60D35-xxx/MB/1500V, JAM60D35-xxx/MB, xxx= 590 to 605 in steps of 5;
 JAM72D30-xxx /TB/1500V, JAM72D30-xxx /TB, xxx= 540 to 580 in steps of 5;
 JAM72D40-xxx/LB/1500V, JAM72D40-xxx/LB, xxx= 575 to 600 in steps of 5;
 JAM54D40-xxx/LB/1500V, JAM54D40-xxx/LB, xxx= 420 to 450 in steps of 5;
 JAM54D41-xxx/LB/1500V, JAM54D41-xxx/LB, xxx= 420 to 440 in steps of 5;
 JAM72D42-xxx/LB/1500V, JAM72D42-xxx/LB, xxx= 605 to 630 in steps of 5;
 JAM54D42-xxx/LB/1500V, JAM54D42-xxx/LB, xxx= 455 to 470 in steps of 5;
 JAM66D42-xxx/MB/1500V, JAM66D42-xxx/MB, xxx= 555 to 575 in steps of 5;
 JAM72D30-xxx/LB/1500V, JAM72D30-xxx/LB, xxx= 555 to 575 in steps of 5;
 JAM54D30-xxx/LB/1500V, JAM54D30-xxx/LB, xxx= 420 to 430 in steps of 5;
 JAM66D45-xxx/LB/1500V, JAM66D45-xxx/LB, xxx= 585 to 605 in steps of 5;

1000 V DC Maximum System Voltage, Single Glass Modules:
 JAM6(K)-72-xxx/PR, xxx= 345 to 370 in steps of 5;
 JAM6(K)-60-xxx/PR, xxx= 285 to 310 in steps of 5;
 JAM6(K)-72-xxx/4BB, xxx= 320 to 345 in steps of 5;
 JAM6(K)-60-xxx/4BB, xxx= 265 to 285 in steps of 5;
 JAM72S01-xxx/SC/1000V, xxx= 320 to 365 in steps of 5;
 JAM60S01-xxx/SC/1000V, xxx= 265 to 305 in steps of 5;
 JAM72S01-xxx/PR/1000V, xxx= 345 to 390 in steps of 5;
 JAM60S01-xxx/PR/1000V, xxx= 285 to 325 in steps of 5;

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JAM72S01-xxx/MR/1000V, xxx= 365 to 385 in steps of 5;
JAM60S01-xxx/MR/1000V, xxx= 305 to 320 in steps of 5;
JAM72S03-xxx/PR/1000V, xxx= 360 to 395 in steps of 5;
JAM60S03-xxx/PR/1000V, xxx= 300 to 330 in steps of 5;
JAM72S09-xxx/PR/1000V, xxx= 370 to 405 in steps of 5;
JAM60S09-xxx/PR/1000V, xxx= 310 to 335 in steps of 5;
JAM72S10-xxx/PR/1000V, xxx= 380 to 410 in steps of 5;
JAM60S10-xxx/PR/1000V, xxx= 315 to 345 in steps of 5;
JAM72S10-xxx/MR/1000V, xxx= 390 to 430 in steps of 5;
JAM60S10-xxx/MR/1000V, xxx= 325 to 355 in steps of 5;
JAM60S10-xxx/MR-L/1000V, xxx= 325 to 355 in steps of 5;
JAM78S10-xxx/MR/1000V, xxx= 435 to 465 in steps of 5;
JAM66S10-xxx/MR/1000V, xxx= 345 to 390 in steps of 5;
JAM72S09-xxx/BP/1000V, xxx= 375 to 385 in steps of 5;
JAM60S09-xxx/BP/1000V, xxx= 315 to 320 in steps of 5;
JAM72S10-xxx/BP/1000V, xxx= 385 to 400 in steps of 5;
JAM60S10-xxx/BP/1000V, xxx= 320 to 330 in steps of 5;
JAM72S02-xxx/PR/1000V, xxx= 345 to 390 in steps of 5;
JAM60S02-xxx/PR/1000V, xxx= 285 to 325 in steps of 5;
JAM72S02-xxx/SC/1000V, xxx= 320 to 365 in steps of 5;
JAM60S02-xxx/SC/1000V, xxx= 265 to 305 in steps of 5;
JAM72S02-xxx/MR/1000V, xxx= 365 to 385 in steps of 5;
JAM60S02-xxx/MR/1000V, xxx= 305 to 320 in steps of 5;
JAM72S08-xxx/PR/1000V, xxx= 360 to 395 in steps of 5;
JAM60S08-xxx/PR/1000V, xxx= 300 to 330 in steps of 5;
JAM72S12-xxx/PR/1000V, xxx= 365 to 385 in steps of 5;
JAM60S12-xxx/PR/1000V, xxx= 305 to 330 in steps of 5;
JAM72S17-xxx/PR/1000V, xxx= 380 to 390 in steps of 5;
JAM60S17-xxx/PR/1000V, xxx= 315 to 325 in steps of 5;
JAM72S17-xxx/MR/1000V, xxx= 390 to 430 in steps of 5;
JAM60S17-xxx/MR/1000V, xxx= 315 to 355 in steps of 5;
JAM72S10-xxx/MB/1000V, xxx= 395 to 415 in steps of 5;
JAM60S10-xxx/MB/1000V, xxx= 330 to 345 in steps of 5;
JAM72S20-xxx/MR/1000V, xxx= 430 to 470 in steps of 5;
JAM60S20-xxx/MR/1000V, xxx= 355 to 390 in steps of 5;
JAM78S30-xxx/MR/1000V, xxx= 580 to 605 in steps of 5;
JAM72S30-xxx/MR/1000V, xxx=510 to 555 in steps of 5;
JAM66S30-xxx/MR/1000V, xxx=470 to 505 in steps of 5;
JAM60S30-xxx/MR/1000V, xxx=435 to 460 in steps of 5;
JAM54S30-xxx/MR/1000V, xxx= 390 to 425 in steps of 5;
JAM54S30-xxx/MB/1000V, xxx= 385 to 410 in steps of 5;
JAM54S31-xxx/MB/1000V, xxx= 385 to 405 in steps of 5;
JAM60S21-xxx/MR/1000V, xxx= 355 to 390 in steps of 5;
JAM50S40-xxx/MR/1000V, xxx= 490 to 500 in steps of 5;
JAM72S20-xxx/MB/1000V, xxx= 450 to 465 in steps of 5;
JAM60S20-xxx/MB/1000V, xxx= 375 to 390 in steps of 5;
JAM72S31-xxx/MR/1000V, xxx= 510 to 545 in steps of 5;
JAM66S31-xxx/MR/1000V, xxx= 470 to 500 in steps of 5;
JAM60S31-xxx/MR/1000V, xxx= 425 to 450 in steps of 5;
JAM54S31-xxx/MR/1000V, xxx= 385 to 405 in steps of 5;
JAM76S11-xxx/PR(B)/1000V, xxx= 395 to 415 in steps of 5;
JAM78S30-xxx/GR/1000V, xxx= 575 to 610 in steps of 5;
JAM72S30-xxx/GR/1000V, xxx= 535 to 560 in steps of 5;
JAM66S30-xxx/GR/1000V, xxx= 500 to 510 in steps of 5;
JAM60S30-xxx/GR/1000V, xxx= 445 to 470 in steps of 5;
JAM54S30-xxx/GR/1000V, xxx= 400 to 420 in steps of 5;
JAM78S31-xxx/GR/1000V, xxx= 570 to 590 in steps of 5;
JAM72S31-xxx/GR/1000V, xxx= 525 to 545 in steps of 5;
JAM66S31-xxx/GR/1000V, xxx= 480 to 500 in steps of 5;
JAM60S31-xxx/GR/1000V, xxx= 430 to 450 in steps of 5;
JAM54S31-xxx/GR/1000V, xxx= 395 to 415 in steps of 5;
JAM72S17-xxx/GR/1000V, xxx= 385 to 400 in steps of 5;
JAM72S40-xxx/GR/1000V, xxx= 540 to 575 in steps of 5;
JAM66S40-xxx/GR/1000V, xxx= 495 to 525 in steps of 5;
JAM60S40-xxx/GR/1000V, xxx= 450 to 480 in steps of 5;
JAM54S40-xxx/GR/1000V, xxx= 405 to 430 in steps of 5;
JAM72S41-xxx/GR/1000V, xxx= 540 to 570 in steps of 5;
JAM66S41-xxx/GR/1000V, xxx= 495 to 525 in steps of 5;
JAM60S41-xxx/GR/1000V, xxx= 450 to 475 in steps of 5;
JAM54S41-xxx/GR/1000V, xxx= 405 to 430 in steps of 5;

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JAM66S35-xxx/MR/1000V, xxx= 650 to 670 in steps of 5;
JAM60S35-xxx/MR/1000V, xxx= 590 to 610 in steps of 5;
JAM72S30-xxx/LR/1000V, xxx= 555 to 580 in steps of 5;
JAM54S30-xxx/LR/1000V, xxx= 415 to 435 in steps of 5;
JAM54S31-xxx/LR/1000V, xxx= 415 to 420 in steps of 5;
JAM54S30-xxx/LB/1000V, xxx= 410 to 425 in steps of 5;
JAM54S31-xxx/LB/1000V, xxx= 410 to 415 in steps of 5;

1000 V DC or 1500 V DC Maximum System Voltage,
Single Glass Modules:

JAM72S01-xxx/SC, xxx= 320 to 365 in steps of 5;
JAM60S01-xxx/SC, xxx= 265 to 305 in steps of 5;
JAM60S01-xxx/PR, xxx= 285 to 325 in steps of 5;
JAM72S01-xxx/MR, xxx= 365 to 385 in steps of 5;
JAM60S01-xxx/MR, xxx= 305 to 320 in steps of 5;
JAM72S03-xxx/PR, xxx= 360 to 395 in steps of 5;
JAM60S03-xxx/PR, xxx= 300 to 330 in steps of 5;
JAM72S09-xxx/PR, xxx= 370 to 405 in steps of 5;
JAM60S09-xxx/PR, xxx= 310 to 335 in steps of 5;
JAM72S10-xxx/PR, xxx= 380 to 410 in steps of 5;
JAM60S10-xxx/PR, xxx= 315 to 345 in steps of 5;
JAM72S10-xxx/MR, xxx= 390 to 430 in steps of 5;
JAM60S10-xxx/MR, xxx= 325 to 355 in steps of 5;
JAM60S10-xxx/MR-L, xxx= 325 to 355 in steps of 5;
JAM78S10-xxx/MR, xxx= 435 to 465 in steps of 5;
JAM66S10-xxx/MR, xxx= 345 to 390 in steps of 5;
JAM72S09-xxx/BP, xxx= 375 to 385 in steps of 5;
JAM60S09-xxx/BP, xxx= 315 to 320 in steps of 5;
JAM72S10-xxx/BP, xxx= 385 to 400 in steps of 5;
JAM60S10-xxx/BP, xxx= 320 to 330 in steps of 5;
JAM72S02-xxx/PR, xxx= 345 to 390 in steps of 5;
JAM60S02-xxx/PR, xxx= 285 to 325 in steps of 5;
JAM72S02-xxx/SC, xxx= 320 to 365 in steps of 5;
JAM60S02-xxx/SC, xxx= 265 to 305 in steps of 5;
JAM72S02-xxx/MR, xxx= 365 to 385 in steps of 5;
JAM60S02-xxx/MR, xxx= 305 to 320 in steps of 5;
JAM72S08-xxx/PR, xxx= 360 to 395 in steps of 5;
JAM60S08-xxx/PR, xxx= 300 to 330 in steps of 5;
JAM72S12-xxx/PR, xxx= 365 to 385 in steps of 5;
JAM60S12-xxx/PR, xxx= 305 to 330 in steps of 5;
JAM72S17-xxx/PR, xxx= 380 to 390 in steps of 5;
JAM60S17-xxx/PR, xxx= 315 to 325 in steps of 5;
JAM72S17-xxx/MR, xxx= 390 to 430 in steps of 5;
JAM60S17-xxx/MR, xxx= 315 to 355 in steps of 5;
JAM72S10-xxx/MB, xxx= 395 to 415 in steps of 5;
JAM60S10-xxx/MB, xxx= 330 to 345 in steps of 5;
JAM72S20-xxx/MR, xxx= 430 to 470 in steps of 5;
JAM60S20-xxx/MR, xxx= 355 to 390 in steps of 5;
JAM78S10-xxx/MR-J, xxx= 435 to 465 in steps of 5;
JAM78S30-xxx/MR, xxx= 580 to 605 in steps of 5;
JAM72S30-xxx/MR, xxx= 510 to 555 in steps of 5;
JAM66S30-xxx/MR, xxx= 470 to 505 in steps of 5;
JAM60S30-xxx/MR, xxx= 435 to 460 in steps of 5;
JAM54S30-xxx/MR, xxx= 390 to 425 in steps of 5;
JAM54S30-xxx/MB, xxx= 385 to 410 in steps of 5;
JAM54S31-xxx/MB, xxx= 385 to 405 in steps of 5;
JAM60S21-xxx/MR, xxx= 355 to 390 in steps of 5;
JAM50S40-xxx/MR, xxx= 490 to 500 in steps of 5;
JAM72S20-xxx/MB, xxx= 450 to 465 in steps of 5;
JAM60S20-xxx/MB, xxx= 375 to 390 in steps of 5;
JAM68S11-xxx/PR, xxx= 355 to 365 in steps of 5;
JAM68S11-xxx/PR(B), xxx= 345 to 365 in steps of 5;
JAM72S31-xxx/MR, xxx= 510 to 545 in steps of 5;
JAM66S31-xxx/MR, xxx= 470 to 500 in steps of 5;
JAM60S31-xxx/MR, xxx= 425 to 450 in steps of 5;
JAM54S31-xxx/MR, xxx= 385 to 405 in steps of 5;
JAM76S11-xxx/PR(B), xxx= 395 to 415 in steps of 5;
JAM78S30-xxx/GR, xxx= 575 to 610 in steps of 5;
JAM72S30-xxx/GR, xxx= 535 to 560 in steps of 5;
JAM66S30-xxx/GR, xxx= 500 to 510 in steps of 5;

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JAM60S30-xxx/GR, xxx= 445 to 470 in steps of 5;
JAM54S30-xxx/GR, xxx= 400 to 420 in steps of 5;
JAM78S31-xxx/GR, xxx= 570 to 590 in steps of 5;
JAM72S31-xxx/GR, xxx= 525 to 545 in steps of 5;
JAM66S31-xxx/GR, xxx= 480 to 500 in steps of 5;
JAM60S31-xxx/GR, xxx= 435 to 450 in steps of 5;
JAM54S31-xxx/GR, xxx= 395 to 415 in steps of 5;
JAM72S17-xxx/GR, xxx= 385 to 400 in steps of 5;
JAM72S40-xxx/GR, xxx= 540 to 575 in steps of 5;
JAM66S40-xxx/GR, xxx= 495 to 525 in steps of 5;
JAM60S40-xxx/GR, xxx= 450 to 480 in steps of 5;
JAM54S40-xxx/GR, xxx= 405 to 430 in steps of 5;
JAM72S41-xxx/GR, xxx= 540 to 570 in steps of 5;
JAM66S41-xxx/GR, xxx= 495 to 525 in steps of 5;
JAM60S41-xxx/GR, xxx= 450 to 475 in steps of 5;
JAM54S41-xxx/GR, xxx= 405 to 430 in steps of 5;
JAM66S35-xxx/MR, xxx= 650 to 670 in steps of 5;
JAM60S35-xxx/MR, xxx= 590 to 610 in steps of 5;
JAM72S30-xxx/LR, xxx= 555 to 580 in steps of 5;
JAM54S30-xxx/LR, xxx= 415 to 435 in steps of 5;
JAM54S31-xxx/LR, xxx= 415 to 420 in steps of 5;
JAM54S30-xxx/LB, xxx= 410 to 425 in steps of 5;
JAM54S31-xxx/LB, xxx= 410 to 415 in steps of 5;

1500 V DC Maximum System Voltage, Single Glass Modules:

JAM6(K)-72-xxx/PR/1500V, xxx= 345 to 370 in steps of 5;
JAM6(K)-60-xxx/PR/1500V, xxx= 285 to 310 in steps of 5;
JAM6(K)-72-xxx/4BB/1500V, xxx= 320 to 345 in steps of 5;
JAM6(K)-60-xxx/4BB/1500V, xxx= 265 to 285 in steps of 5;
JAM72S01-xxx/SC/1500V, xxx= 320 to 365 in steps of 5;
JAM60S01-xxx/SC/1500V, xxx= 265 to 305 in steps of 5;
JAM72S01-xxx/PR, xxx= 345 to 390 in steps of 5;
JAM60S01-xxx/PR/1500V, xxx= 285 to 325 in steps of 5;
JAM72S01-xxx/MR/1500V, xxx= 365 to 385 in steps of 5;
JAM60S01-xxx/MR/1500V, xxx= 305 to 320 in steps of 5;
JAM72S03-xxx/PR/1500V, xxx= 360 to 395 in steps of 5;
JAM60S03-xxx/PR/1500V, xxx= 300 to 330 in steps of 5;
JAM72S09-xxx/PR/1500V, xxx= 370 to 405 in steps of 5;
JAM60S09-xxx/PR/1500V, xxx= 310 to 335 in steps of 5;
JAM72S10-xxx/PR/1500V, xxx= 380 to 410 in steps of 5;
JAM60S10-xxx/PR/1500V, xxx= 315 to 345 in steps of 5;
JAM72S10-xxx/MR/1500V, xxx= 390 to 430 in steps of 5;
JAM60S10-xxx/MR/1500V, xxx= 325 to 355 in steps of 5;
JAM60S10-xxx/MR-L/1500V, xxx= 325 to 355 in steps of 5;
JAM78S10-xxx/MR/1500V, xxx= 435 to 465 in steps of 5;
JAM66S10-xxx/MR/1500V, xxx= 345 to 390 in steps of 5;
JAM72S09-xxx/BP/1500V, xxx= 375 to 385 in steps of 5;
JAM60S09-xxx/BP/1500V, xxx= 315 to 320 in steps of 5;
JAM72S10-xxx/BP/1500V, xxx= 385 to 400 in steps of 5;
JAM60S10-xxx/BP/1500V, xxx= 320 to 330 in steps of 5;
JAM72S02-xxx/PR/1500V, xxx= 345 to 390 in steps of 5;
JAM60S02-xxx/PR/1500V, xxx= 285 to 325 in steps of 5;
JAM72S02-xxx/SC/1500V, xxx= 320 to 365 in steps of 5;
JAM60S02-xxx/SC/1500V, xxx= 265 to 305 in steps of 5;
JAM72S02-xxx/MR/1500V, xxx= 365 to 385 in steps of 5;
JAM60S02-xxx/MR/1500V, xxx= 305 to 320 in steps of 5;
JAM72S08-xxx/PR/1500V, xxx= 360 to 395 in steps of 5;
JAM60S08-xxx/PR/1500V, xxx= 300 to 330 in steps of 5;
JAM72S12-xxx/PR/1500V, xxx= 365 to 385 in steps of 5;
JAM60S12-xxx/PR/1500V, xxx= 305 to 330 in steps of 5;
JAM72S17-xxx/PR/1500V, xxx= 380 to 390 in steps of 5;
JAM60S17-xxx/PR/1500V, xxx= 315 to 325 in steps of 5;
JAM72S17-xxx/MR/1500V, xxx= 390 to 430 in steps of 5;
JAM60S17-xxx/MR/1500V, xxx= 315 to 355 in steps of 5;
JAM72S10-xxx/MB/1500V, xxx= 395 to 415 in steps of 5;
JAM60S10-xxx/MB/1500V, xxx= 330 to 345 in steps of 5;
JAM72S20-xxx/MR/1500V, xxx= 430 to 470 in steps of 5;
JAM60S20-xxx/MR/1500V, xxx= 355 to 390 in steps of 5;
JAM78S30-xxx/MR/1500V, xxx= 580 to 605 in steps of 5;
JAM72S30-xxx/MR/1500V, xxx= 510 to 555 in steps of 5;

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JAM66S30-xxx/MR/1500V, xxx=470 to 505 in steps of 5;
 JAM60S30-xxx/MR/1500V, xxx=435 to 460 in steps of 5;
 JAM54S30-xxx/MR/1500V, xxx= 390 to 425 in steps of 5;
 JAM54S30-xxx/MB/1500V, xxx= 385 to 410 in steps of 5;
 JAM54S31-xxx/MB/1500V, xxx= 385 to 405 in steps of 5;
 JAM60S21-xxx/MR/1500V, xxx= 355 to 390 in steps of 5;
 JAM50S40-xxx/MR/1500V, xxx= 490 to 500 in steps of 5;
 JAM72S20-xxx/MB/1500V, xxx= 450 to 465 in steps of 5;
 JAM60S20-xxx/MB/1500V, xxx= 375 to 390 in steps of 5;
 JAM72S31-xxx/MR/1500V, xxx= 510 to 545 in steps of 5;
 JAM66S31-xxx/MR/1500V, xxx= 470 to 500 in steps of 5;
 JAM60S31-xxx/MR/1500V, xxx= 425 to 450 in steps of 5;
 JAM54S31-xxx/MR/1500V, xxx= 385 to 405 in steps of 5;
 JAM76S11-xxx/PR(B)/1500V, xxx= 395 to 415 in steps of 5;
 JAM78S30-xxx/GR/1500V, xxx= 575 to 610 in steps of 5;
 JAM72S30-xxx/GR/1500V, xxx= 535 to 560 in steps of 5;
 JAM66S30-xxx/GR/1500V, xxx= 500 to 510 in steps of 5;
 JAM60S30-xxx/GR/1500V, xxx= 445 to 470 in steps of 5;
 JAM54S30-xxx/GR/1500V, xxx= 400 to 420 in steps of 5;
 JAM78S31-xxx/GR/1500V, xxx= 570 to 590 in steps of 5;
 JAM72S31-xxx/GR/1500V, xxx= 525 to 545 in steps of 5;
 JAM66S31-xxx/GR/1500V, xxx= 480 to 500 in steps of 5;
 JAM60S31-xxx/GR/1500V, xxx= 435 to 450 in steps of 5;
 JAM54S31-xxx/GR/1500V, xxx= 395 to 415 in steps of 5;
 JAM72S17-xxx/GR/1500V, xxx= 385 to 400 in steps of 5;
 JAM72S40-xxx/GR/1500V, xxx= 540 to 575 in steps of 5;
 JAM66S40-xxx/GR/1500V, xxx= 495 to 525 in steps of 5;
 JAM60S40-xxx/GR/1500V, xxx= 450 to 480 in steps of 5;
 JAM54S40-xxx/GR/1500V, xxx= 405 to 430 in steps of 5;
 JAM72S41-xxx/GR/1500V, xxx= 540 to 570 in steps of 5;
 JAM66S41-xxx/GR/1500V, xxx= 495 to 525 in steps of 5;
 JAM60S41-xxx/GR/1500V, xxx= 450 to 475 in steps of 5;
 JAM54S41-xxx/GR/1500V, xxx= 405 to 430 in steps of 5;
 JAM66S35-xxx/MR/1500V, xxx= 650 to 670 in steps of 5;
 JAM60S35-xxx/MR/1500V, xxx= 590 to 610 in steps of 5;
 JAM72S30-xxx/LR/1500V, xxx= 555 to 580 in steps of 5;
 JAM54S30-xxx/LR/1500V, xxx= 415 to 435 in steps of 5;
 JAM54S31-xxx/LR/1500V, xxx= 415 to 420 in steps of 5;
 JAM54S30-xxx/LB/1500V, xxx= 410 to 425 in steps of 5;
 JAM54S31-xxx/LB/1500V, xxx= 410 to 415 in steps of 5;
 xxx is standing for rated output power at STC

Parameters:

Construction:	Framed or Frameless, with Junction box, Cable and Connectors.
Test Laboratory:	Yangzhou Opto-Electrical Products Testing Institute No. 10 West Kaifa Road, Yangzhou 225009 Jiangsu, P. R. China
Safety Class:	Class II
Maximum System Voltage:	1500 V DC or 1000 V DC
Fire Safety Class:	Class C according to UL790.
Production Facility(ies):	079395, 095903, 090968, 108746, 072092, 109998, 112017, 113943, 114922, 001783, 004170, 113691, 117043, 119123, 120210, 117684, 114994, 120736, 115500, 120016, 108093, 121678.

Tested according to:

IEC 61215-1:2016
 IEC 61215-1-1:2016
 IEC 61215-2:2016
 IEC 61730-1:2016
 IEC 61730-2:2016
 EN IEC 61730-1:2018
 EN IEC 61730-1:2018/AC:2018-06
 EN IEC 61730-2:2018
 EN IEC 61730-2:2018/AC:2018-06

CERTIFICATE

TÜV NORD CERT GmbH
herewith declares that

Shanghai JA Solar Technology Co., Ltd.
No. 118, Lane 3111, West Huancheng Road,
Fengxian District, Shanghai, 201401,
P.R. China

is authorized to provide the product mentioned below with the mark as illustrated:



Description of product (details see Annex 2):

Crystalline Silicon Terrestrial Photovoltaic (PV) Modules

Valid until: 2026-09-29

Certification program:	P12-VA-01 Rev. 17 09.20
Certification fundamental(s):	IEC 62716:2013 / EN 62716:2013 + AC:2014.
Registered No.:	44 780 19 406749 - 303R13A7M15
Manufacturer:	see Annex 1
Test Report No.:	492010719.025
File No.:	PVP04070/23P-02



TÜV NORD CERT GmbH
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Essen, 2023-05-19

Please also pay attention to the information stated overleaf.

Manufacturer:

Manufacturer 1: **Shanghai JA Solar Technology Co., Ltd.**
No. 118, Lane 3111, West Huancheng Road, Fengxian District
Shanghai 201401, P.R. China

Factory inspection report no.: 862010153.010

Manufacturer 2: **Hefei JA Solar Technology Co., Ltd.**
No. 999, Chang Ning Road, Hi-tech Zone, Hefei
230088, P.R. China

Factory inspection report no.: 862010241.009

Manufacturer 3: **JA Solar (Xingtai) Co., Ltd.**
No. 1688, Chang An Road, Xingtai Economic Development Area
Xingtai City, Hebei Province, 054001, P.R. China

Factory inspection report no.: 862010290.007

Manufacturer 4: **Vina Solar Technology Co., Ltd.**
E12 factory, lot CN-03, Van Trung Industrial park
21000 Bac Giang Province, Vietnam

Factory inspection report no.: 862010302.006

Manufacturer 5: **JA Solar New Energy Yangzhou Co., Ltd.**
No.1, Jianhua Road, Economic Development Zone
Yangzhou, Jiangsu Province, 225000, P.R. China

Factory inspection report no.: 862010496.003

Manufacturer 6: **Yiwu JA Solar Technology Co., Ltd.**
No. 165, Tongze Road, Yiting Town, Yiwu City,
Zhejiang Province, 322000, P.R. China.

Factory inspection report no.: 862010513.003

Manufacturer 7: **JA Solar Viet Nam Company Limited**
Lot G, Quang Chau Industrial Zone, Quang Chau Commune
Viet Yen Dist, 236110 Bac Giang Province, VIETNAM.

Factory inspection report no.: 862010560.002



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Manufacturer 8: **JA Solar New Energy Yangzhou Co., Ltd. (Jingshan Park)**
No.123, Jinshan Road, Economic Development Zone,
Yangzhou, Jiangsu Province, 225127, P.R. China

Factory inspection report no.: 862010584.002

Remark:

Factory inspection is mandatory to be performed annually. Please refer to factory inspection report for detailed information.



TÜV NORD CERT GmbH
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Description of product(s):

Module types:

PV Modules with Mono-crystalline Silicon Solar Cells (156mm to 158.75mm):

72 cells: JAM6(K)(DG)-72-xxx/PR/1500V (xxx=330-365, in steps of 5)

72 cells: JAM6(K)(DG)-72-xxx/4BB/1500V (xxx=320-340, in steps of 5)

72 cells: JAM72D00-xxx/PR (xxx=340-385, in steps of 5)

72 cells: JAM72D00-xxx/PR/1500V (xxx=340-385, in steps of 5)

72 cells: JAM72D00-xxx/SC (xxx=320-340, in steps of 5)

72 cells: JAM72D00-xxx/BP (xxx=330-385, in steps of 5)

72 cells: JAM72D00-xxx/BP/1500V (xxx=330-385, in steps of 5)

72 cells: JAM72D00-xxx/MB (xxx=370-380, in steps of 5)

72 cells: JAM72D00-xxx/MB/1500V (xxx=370-380, in steps of 5)

72 cells: JAM72D09-xxx/BP (xxx=360-400, in steps of 5)

72 cells: JAM72D09-xxx/BP/1500V (xxx=360-400, in steps of 5)

60 cells: JAM6(DG)-60-xxx/1500V (xxx=250-270, in steps of 5)

60 cells: JAM6(K)(DG)-60-xxx/4BB/1500V (xxx=260-285, in steps of 5)

60 cells: JAM6(K)(DG)-60-xxx/PR/1500V (xxx=270-305, in steps of 5)

60 cells: JAM6(DG)-60-xxx/4BB/1500V (xxx=260-280, in steps of 5)

60 cells: JAM60D00-xxx/PR (xxx=285-320, in steps of 5)

60 cells: JAM60D00-xxx/PR/1500V (xxx=285-320, in steps of 5)

60 cells: JAM60D00-xxx/SC (xxx=260-285, in steps of 5)

60 cells: JAM60D00-xxx/BP (xxx=275-320, in steps of 5)

60 cells: JAM60D00-xxx/BP/1500V (xxx=275-320, in steps of 5)

60 cells: JAM60D00-xxx/MB (xxx=310-315, in steps of 5)

60 cells: JAM60D00-xxx/MB/1500V (xxx=310-315, in steps of 5)

60 cells: JAM60D09-xxx/BP (xxx=300-340, in steps of 5)

60 cells: JAM60D09-xxx/BP/1500V (xxx=300-340, in steps of 5)

Maximum system voltage:

1500V

Fuse rating:

20A

Application class:

Class A

Electrical protection class:

Class II

Module types:

PV Modules with Mono-crystalline Silicon half-cut Solar Cells (156mm to 158.75mm):

72 cells: JAM72D10-xxx/MB (xxx=385-430, in steps of 5)

72 cells: JAM72D10-xxx/MB/1500V (xxx=385-430, in steps of 5)

60 cells: JAM60D10-xxx/MB (xxx=320-355, in steps of 5)

60 cells: JAM60D10-xxx/MB/1500V (xxx=320-355, in steps of 5)

72 cells: JAM72D10-xxx/BP (xxx=385-415, in steps of 5)

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72 cells: JAM72D10-xxx/BP/1500V (xxx=385-415, in steps of 5)
60 cells: JAM60D10-xxx/BP (xxx=320-345, in steps of 5)
60 cells: JAM60D10-xxx/BP/1500V (xxx=320-345, in steps of 5)
78 cells: JAM78D10-xxx/MB (xxx=435-455, in steps of 5)
78 cells: JAM78D10-xxx/MB/1500V (xxx=435-455, in steps of 5)
66 cells: JAM66D10-xxx/MB (xxx=360-380, in steps of 5)
66 cells: JAM66D10-xxx/MB/1500V (xxx=360-380, in steps of 5)
72 cells: JAM72D20-xxx/MB (xxx=430-465, in steps of 5)
72 cells: JAM72D20-xxx/MB/1500V (xxx=430-465, in steps of 5)
60 cells: JAM60D20-xxx/MB (xxx=355-385, in steps of 5)
60 cells: JAM60D20-xxx/MB/1500V (xxx=355-385, in steps of 5)
72 cells: JAM72D10-xxx/TB (xxx=400-420, in steps of 5)
72 cells: JAM72D10-xxx/TB/1500V (xxx=400-420, in steps of 5)
60 cells: JAM60D10-xxx/TB (xxx=335-350, in steps of 5)
60 cells: JAM60D10-xxx/TB/1500V (xxx=335-350, in steps of 5)

Maximum system voltage: 1500V
Fuse rating: 20A or 25A
Application class: Class A
Electrical protection class: Class II

Module types:

PV Modules with 182mm Mono-crystalline Silicon half-cut Solar Cells:

78 cells: JAM78D30-xxx/MB (xxx=580-605, in steps of 5)
78 cells: JAM78D30-xxx/MB/1500V (xxx=580-605, in steps of 5)
72 cells: JAM72D30-xxx/MB (xxx=505-555, in steps of 5)
72 cells: JAM72D30-xxx/MB/1500V (xxx=505-555, in steps of 5)
72 cells: JAM72D30-xxx/MB/F (xxx=505-555, in steps of 5)
72 cells: JAM72D30-xxx/MB/F/1500V (xxx=505-555, in steps of 5)
66 cells: JAM66D30-xxx/MB (xxx=465-505, in steps of 5)
66 cells: JAM66D30-xxx/MB/1500V (xxx=465-505, in steps of 5)
66 cells: JAM66D30-xxx/MB/F (xxx=465-505, in steps of 5)
66 cells: JAM66D30-xxx/MB/F/1500V (xxx=465-505, in steps of 5)
60 cells: JAM60D30-xxx/MB (xxx=435-460, in steps of 5)
60 cells: JAM60D30-xxx/MB/1500V (xxx=435-460, in steps of 5)
54 cells: JAM54D30-xxx/MB (xxx=390-415, in steps of 5)
54 cells: JAM54D30-xxx/MB/1500V (xxx=390-415, in steps of 5)
54 cells: JAM54D31-xxx/MB (xxx=395-400, in steps of 5)
54 cells: JAM54D31-xxx/MB/1500V (xxx=395-400, in steps of 5)
78 cells: JAM78D30-xxx/GB (xxx=585-610, in steps of 5)



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78 cells: JAM78D30-xxx/GB/1500V (xxx=585-610, in steps of 5)
72 cells: JAM72D30-xxx/GB (xxx=540-560, in steps of 5)
72 cells: JAM72D30-xxx/GB/1500V (xxx=540-560, in steps of 5)
66 cells: JAM66D30-xxx/GB (xxx=495-510, in steps of 5)
66 cells: JAM66D30-xxx/GB/1500V (xxx=495-510, in steps of 5)
60 cells: JAM60D30-xxx/GB (xxx=450-470, in steps of 5)
60 cells: JAM60D30-xxx/GB/1500V (xxx=450-470, in steps of 5)
54 cells: JAM54D30-xxx/GB (xxx=405-420, in steps of 5)
54 cells: JAM54D30-xxx/GB/1500V (xxx=405-420, in steps of 5)
54 cells: JAM54D31-xxx/GB (xxx=410-420, in steps of 5)
54 cells: JAM54D31-xxx/GB/1500V (xxx=410-420, in steps of 5)
72 cells: JAM72D30-xxx/HB (xxx=530-560, in steps of 5)
72 cells: JAM72D30-xxx/HB/1500V (xxx=530-560, in steps of 5)
72 cells: JAM72D30-xxx/TB (xxx=540-580, in steps of 5)
72 cells: JAM72D30-xxx/TB/1500V (xxx=540-580, in steps of 5)
78 cells: JAM78D40-xxx/MB (xxx=580-630, in steps of 5)
78 cells: JAM78D40-xxx/MB/1500V (xxx=580-630, in steps of 5)
72 cells: JAM72D40-xxx/MB (xxx=540-580, in steps of 5)
72 cells: JAM72D40-xxx/MB/1500V (xxx=540-580, in steps of 5)
66 cells: JAM66D40-xxx/MB (xxx=500-530, in steps of 5)
66 cells: JAM66D40-xxx/MB/1500V (xxx=500-530, in steps of 5)
60 cells: JAM60D40-xxx/MB (xxx=455-480, in steps of 5)
60 cells: JAM60D40-xxx/MB/1500V (xxx=455-480, in steps of 5)
54 cells: JAM54D40-xxx/MB (xxx=405-435, in steps of 5)
54 cells: JAM54D40-xxx/MB/1500V (xxx=405-435, in steps of 5)
78 cells: JAM78D40-xxx/GB (xxx=580-635, in steps of 5)
78 cells: JAM78D40-xxx/GB/1500V (xxx=580-635, in steps of 5)
72 cells: JAM72D40-xxx/GB (xxx=540-585, in steps of 5)
72 cells: JAM72D40-xxx/GB/1500V (xxx=540-585, in steps of 5)
66 cells: JAM66D40-xxx/GB (xxx=500-535, in steps of 5)
66 cells: JAM66D40-xxx/GB/1500V (xxx=500-535, in steps of 5)
60 cells: JAM60D40-xxx/GB (xxx=455-485, in steps of 5)
60 cells: JAM60D40-xxx/GB/1500V (xxx=455-485, in steps of 5)
54 cells: JAM54D40-xxx/GB (xxx=405-440, in steps of 5)
54 cells: JAM54D40-xxx/GB/1500V (xxx=405-440, in steps of 5)
54 cells: JAM54D41-xxx/GB (xxx=415-435, in steps of 5)
54 cells: JAM54D41-xxx/GB/1500V (xxx=415-435, in steps of 5)
72 cells: JAM72D40-xxx/LB (xxx=575-600, in steps of 5)
72 cells: JAM72D40-xxx/LB/1500V (xxx=575-600, in steps of 5)



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54 cells: JAM54D40-xxx/LB (xxx=420-450, in steps of 5)
54 cells: JAM54D40-xxx/LB/1500V (xxx=420-450, in steps of 5)
54 cells: JAM54D41-xxx/LB (xxx=420-440, in steps of 5)
54 cells: JAM54D41-xxx/LB/1500V (xxx=420-440, in steps of 5)
72 cells: JAM72D42-xxx/LB (xxx=605-630, in steps of 5)
72 cells: JAM72D42-xxx/LB/1500V (xxx=605-630, in steps of 5)
72 cells: JAM72D30-xxx/LB (xxx=555-575, in steps of 5)
72 cells: JAM72D30-xxx/LB/1500V (xxx=555-575, in steps of 5)
54 cells: JAM54D30-xxx/LB (xxx=420-430, in steps of 5)
54 cells: JAM54D30-xxx/LB/1500V (xxx=420-430, in steps of 5)

Maximum system voltage: 1500V
Fuse rating: 30A
Application class: Class A
Electrical protection class: Class II

Module types: **PV Modules with 210mm Mono-crystalline Silicon 1/3-cut Solar Cells:**

50 cells: JAM50D40-xxx/MB (xxx=485-500, in steps of 5)
50 cells: JAM50D40-xxx/MB/1500V (xxx=485-500, in steps of 5)

Maximum system voltage: 1500V
Fuse rating: 30A
Application class: Class A
Electrical protection class: Class II

Module types: **PV Modules with 210mm Mono-crystalline Silicon 1/2-cut Solar Cells:**

66 cells: JAM66D35-xxx/MB (xxx=650-665, in steps of 5)
66 cells: JAM66D35-xxx/MB/1500V (xxx=650-665, in steps of 5)
60 cells: JAM60D35-xxx/MB (xxx=590-605, in steps of 5)
60 cells: JAM60D35-xxx/MB/1500V (xxx=590-605, in steps of 5)

Maximum system voltage: 1500V
Fuse rating: 30A
Application class: Class A
Electrical protection class: Class II

Module types: **PV Modules with Poly-crystalline Silicon Solar Cells (156mm to 158.75mm):**



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72 cells: JAP6(DG)-72-xxx/4BB/1500V (xxx=305-325, in steps of 5)
72 cells: JAP6(DG)-72-xxx/3BB/1500V (xxx=305-315, in steps of 5)
72 cells: JAP6(DG)-72-xxx/4BB/RE/1500V (xxx=310-335, in steps of 5)
72 cells: JAP6(K)(DG)-72-xxx/4BB/1500V (xxx=310-335, in steps of 5)
72 cells: JAP72D00-xxx/SC (xxx=305-345, in steps of 5)
72 cells: JAP72D00-xxx/SC/1500V (xxx=310-340, in steps of 5)
72 cells: JAP72D00-xxx/PR (xxx=330-350, in steps of 5)
72 cells: JAP72D00-xxx/PR/1500V (xxx=330-345, in steps of 5)
72 cells: JAP72D09-xxx/SC (xxx=325-345, in steps of 5)
72 cells: JAP72D09-xxx/SC/1500V (xxx=330-345, in steps of 5)
60 cells: JAP6(DG)-60-xxx/4BB/1500V (xxx=250-275, in steps of 5)
60 cells: JAP6(DG)-60-xxx/3BB/1500V (xxx=245-265, in steps of 5)
60 cells: JAP6(DG)-60-xxx/4BB/RE/1500V (xxx=255-280, in steps of 5)
60 cells: JAP6(K)(DG)-60-xxx/4BB/1500V (xxx=255-280, in steps of 5)
60 cells: JAP60D00-xxx/SC (xxx=255-290, in steps of 5)
60 cells: JAP60D00-xxx/SC/1500V (xxx=260-285, in steps of 5)
60 cells: JAP60D00-xxx/PR (xxx=275-290, in steps of 5)
60 cells: JAP60D00-xxx/PR/1500V (xxx=275-290, in steps of 5)
60 cells: JAP60D09-xxx/SC (xxx=270-290, in steps of 5)
60 cells: JAP60D09-xxx/SC/1500V (xxx=275-290, in steps of 5)

Maximum system voltage: 1500V
Fuse rating: 20A
Application class: Class A
Electrical protection class: Class II

Remark:

For detailed product information, please refer to CDF (Constructional Data Form) in Annex 1 of test report.



TÜV NORD CERT GmbH
Certification Body
Consumer Products

CERTIFICATE

TÜV NORD CERT GmbH
herewith declares that

Shanghai JA Solar Technology Co., Ltd.
No. 118, Lane 3111, West Huancheng Road,
Fengxian District, Shanghai, 201401,
P.R. China

is authorized to provide the product mentioned below with the mark as illustrated:

Description of product (details see Annex 2):

Crystalline Silicon Terrestrial Photovoltaic (PV) Modules



Valid from: 2024-01-10

Valid until: 2026-09-29

Certification program:	P12-VA-01 Rev. 17 09.20
Certification fundamental(s):	P12.4-AA-04 Rev. 00 (IEC 60068-2-68:1994 modified)
Remark:	Test Method Lc; Dust concentration: $5 \pm 1.5 \text{g/m}^3$; Wind velocity: $20 \pm 2 \text{m/s}$; Test duration: 4 hours each side.
Registered No.:	44 780 23 406749 - 193R4A3M5
Manufacturer:	see Annex 1
Test Report No.:	492012553.006
File No.:	PVP05094/23P-03



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Essen, 2024-01-10

Manufacturer:

- Manufacturer 1: **Shanghai JA Solar Technology Co., Ltd.**
No. 118, Lane 3111, West Huancheng Road, Fengxian District
Shanghai 201401, P.R. China
Factory inspection report no.: 862010153.011
- Manufacturer 2: **Hefei JA Solar Technology Co., Ltd.**
No. 999, Chang Ning Road, Hi-tech Zone, Hefei
230088, P.R. China
Factory inspection report no.: 862010241.010
- Manufacturer 3: **JA Solar (Xingtai) Co., Ltd.**
No. 1688, Chang An Road, Xingtai Economic Development Area
Xingtai City, Hebei Province, 054001, P.R. China
Factory inspection report no.: 862010290.008
- Manufacturer 4: **JA Solar New Energy Yangzhou Co., Ltd.**
No.1, Jianhua Road, Economic Development Zone
Yangzhou, Jiangsu Province, 225000, P.R. China
Factory inspection report no.: 862010496.004
- Manufacturer 5: **Yiwu JA Solar Technology Co., Ltd.**
No. 165, Tongze Road, Yiting Town, Yiwu City,
Zhejiang Province, 322000, P.R. China.
Factory inspection report no.: 862010513.004
- Manufacturer 6: **JA Solar Viet Nam Company Limited**
Lot G, Quang Chau Industrial Zone, Quang Chau Commune
Viet Yen Dist, 236110 Bac Giang Province, VIETNAM.
Factory inspection report no.: 862010560.003
- Manufacturer 7: **JA Solar New Energy Yangzhou Co., Ltd. (Jingshan Park)**
No.123, Jinshan Road, Economic Development Zone,
Yangzhou, Jiangsu Province, 225127, P.R. China
Factory inspection report no.: 862010584.003

Manufacturer 8:	HSA ENERJI A.S. OSB III. Kisim Keciliköy OSB Mah., Mustafa Kemal Bulvari No:15/1., 45030 Yunusemre – Manisa, TURKEY
Factory inspection report no.:	862010735.001
Manufacturer 9:	Dongtai JA Solar Technology Co., Ltd. No.8 Zaofeng North Road, Dongtai High-tech Zone, Dongtai City, 224248 Yancheng City, Jiangsu Province, PEOPLE'S REPUBLIC OF CHINA
Factory inspection report no.:	862010802.001
Manufacturer 10:	QuJing JA Solar Technology Co., Ltd. North of Nanhai Avenue and East of Shaoxi Road, Qujing Economic and Technological Development Zone, 655000 Qujing City, Yunnan Province, PEOPLE'S REPUBLIC OF CHINA
Factory inspection report no.:	862010866.001
Manufacturer 10:	Inner Mongolia JA Solar PV Technology Co., Ltd. No.21, Zhuangbei Avenue, Xin Guihua Area, Equipment park, Qingshan District, 014000 Baotou, Inner Mogolia Autonomous Region, PEOPLE'S REPUBLIC OF CHINA
Factory inspection report no.:	862010874.001

Remark:

Factory inspection is mandatory to be performed annually. Please refer to factory inspection report for detailed information.



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Description of product(s):

Module types:

PV Modules with Mono-crystalline Silicon Solar Cells (156mm to 158.75mm):

- 72 cells: JAM6(L)-72- xxx (xxx=295-335, in steps of 5)
- 72 cells: JAM6-72- xxx/SI (xxx=285-325, in steps of 5)
- 72 cells: JAM6(R)-72-xxx (xxx=295-340, in steps of 5)
- 72 cells: JAM6(R)-72-xxx/PR (xxx=330-350, in steps of 5)
- 72 cells: JAM6-72-xxx/PR (xxx=325-345, in steps of 5)
- 72 cells: JAM6(L)-72-xxx/PR (xxx=325-345, in steps of 5)
- 72 cells: JAM6(K)-72-xxx/4BB (xxx=320-345, in steps of 5)
- 72 cells: JAM6(K)-72-xxx/PR (xxx=325-370, in steps of 5)
- 72 cells: JAM72S02-xxx/PR (xxx=325-390, in steps of 5)
- 72 cells: JAM72S01-xxx/PR/1000V (xxx=345-390, in steps of 5)
- 72 cells: JAM72S01-xxx/SC/1000V (xxx=320-365, in steps of 5)
- 72 cells: JAM72S01-xxx/MR/1000V (xxx=365-385, in steps of 5)
- 72 cells: JAM72S09-xxx/PR/1000V (xxx=370-405, in steps of 5)
- 72 cells: JAM72S09-xxx/BP/1000V (xxx=375-385, in steps of 5)
- 72 cells: JAM72S02-xxx/PR/1000V (xxx=345-390, in steps of 5)
- 72 cells: JAM72S02-xxx/SC/1000V (xxx=320-365, in steps of 5)
- 72 cells: JAM72S02-xxx/MR/1000V (xxx=365-385, in steps of 5)
- 72 cells: JAM72S12-xxx/PR/1000V (xxx=365-385, in steps of 5)
- 60 cells: JAM6(L)-60-xxx (xxx=255-280, in steps of 5)
- 60 cells: JAM6-60-xxx/SI (xxx=235-280, in steps of 5)
- 60 cells: JAM6(FA)-60-xxx/SI (xxx=255-275, in steps of 5)
- 60 cells: JAM6(R)(FA)-60-xxx (xxx=260-280, in steps of 5)
- 60 cells: JAM6(R)-60-xxx (xxx=255-280, in steps of 5)
- 60 cells: JAM6(R)-60-xxx/PR (xxx=280-300, in steps of 5)
- 60 cells: JAM6-60-xxx/PR (xxx=275-295, in steps of 5)
- 60 cells: JAM6(L)-60-xxx/PR (xxx=270-295, in steps of 5)
- 60 cells: JAM6(K)-60-xxx/4BB (xxx=265-285, in steps of 5)
- 60 cells: JAM6(K)-60-xxx/PR (xxx=275-310, in steps of 5)
- 60 cells: JAM60S02-xxx/PR (xxx=280-325, in steps of 5)
- 60 cells: JAM60S01-xxx/PR/1000V (xxx=285-325, in steps of 5)
- 60 cells: JAM60S01-xxx/SC/1000V (xxx=265-305, in steps of 5)
- 60 cells: JAM60S01-xxx/MR/1000V (xxx=305-320, in steps of 5)
- 60 cells: JAM60S09-xxx/PR/1000V (xxx=310-335, in steps of 5)
- 60 cells: JAM60S09-xxx/BP/1000V (xxx=315-320, in steps of 5)
- 60 cells: JAM60S02-xxx/PR/1000V (xxx=285-325, in steps of 5)
- 60 cells: JAM60S02-xxx/SC/1000V (xxx=265-305, in steps of 5)



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60 cells: JAM60S02-xxx/MR/1000V (xxx=305-320, in steps of 5)
60 cells: JAM60S12-xxx/PR/1000V (xxx=305-330, in steps of 5)
48 cells: JAM6(FA)-48-xxx/SI (xxx=205-220, in steps of 5)
48 cells: JAM6(R)(FA)-48-xxx (xxx=210-225, in steps of 5)
48 cells: JAM6(R)-48-xxx/PR (xxx=220-235, in steps of 5)
48 cells: JAM6-48-xxx/PR (xxx=215-235, in steps of 5)
48 cells: JAM6(L)-48-xxx/PR (xxx=215-235, in steps of 5)
48 cells: JAM6(K)-48xxx/4BB (xxx=210-225, in steps of 5)
48 cells: JAM6(K)-48-xxx/PR (xxx=220-235, in steps of 5)

Maximum system voltage: 1000V
Fuse rating: 20A
Application class: Class A
Electrical protection class: Class II

Module types: **PV Modules with 125mm Mono-crystalline Silicon Solar Cells:**

72 cells: JAM5-72-xxx/SI (xxx=180-210, in steps of 5)
72 cells: JAM5(L)-72-xxx/SI (xxx=180-220, in steps of 5)
72 cells: JAM5(R)-72-xxx (xxx=195-220, in steps of 5)

Maximum system voltage: 1000V
Fuse rating: 10A
Application class: Class A
Electrical protection class: Class II

Module types: **PV Modules with Mono-crystalline Silicon half-cut Solar Cells (156mm to 158.75mm):**

72 cells: JAM72S03-xxx/PR/1000V (xxx=360-395, in steps of 5)
72 cells: JAM72S10-xxx/PR/1000V (xxx=380-410, in steps of 5)
72 cells: JAM72S10-xxx/BP/1000V (xxx=385-400, in steps of 5)
72 cells: JAM72S10-xxx/MR/1000V (xxx=390-430, in steps of 5)
72 cells: JAM72S10-xxx/MB/1000V (xxx=395-415, in steps of 5)
72 cells: JAM72S08-xxx/PR/1000V (xxx=360-395, in steps of 5)
72 cells: JAM72S17-xxx/PR/1000V (xxx=380-390, in steps of 5)
72 cells: JAM72S17-xxx/MR/1000V (xxx=390-430, in steps of 5)
72 cells: JAM72S17-xxx/GR/1000V (xxx=385-400, in steps of 5)
60 cells: JAM60S03-xxx/PR/1000V (xxx=300-330, in steps of 5)
60 cells: JAM60S10-xxx/PR/1000V (xxx=315-345, in steps of 5)
60 cells: JAM60S10-xxx/BP/1000V (xxx=320-330, in steps of 5)
60 cells: JAM60S10-xxx/MR/1000V (xxx=325-355, in steps of 5)



60 cells: JAM60S10-xxx/MB/1000V (xxx=330-345, in steps of 5)
60 cells: JAM60S08-xxx/PR/1000V (xxx=300-330, in steps of 5)
60 cells: JAM60S17-xxx/PR/1000V (xxx=315-325, in steps of 5)
60 cells: JAM60S17-xxx/MR/1000V (xxx=315-355, in steps of 5)
78 cells: JAM78S10-xxx/MR/1000V (xxx=435-465, in steps of 5)
66 cells: JAM66S10-xxx/MR/1000V (xxx=345-390, in steps of 5)

Maximum system voltage: 1000V
Fuse rating: 20A
Application class: Class A
Electrical protection class: Class II

Module types:

PV Modules with Mono-crystalline Silicon half-cut Solar Cells (166mm to 168mm):

72 cells: JAM72S20-xxx/MR/1000V (xxx=430-470, in steps of 5)
72 cells: JAM72S20-xxx/MB/1000V (xxx=450-465, in steps of 5)
60 cells: JAM60S20-xxx/MR/1000V (xxx=355-390, in steps of 5)
60 cells: JAM60S21-xxx/MR/1000V (xxx=355-390, in steps of 5)
60 cells: JAM60S20-xxx/MB/1000V (xxx=375-390, in steps of 5)

Maximum system voltage: 1000V
Fuse rating: 25A
Application class: Class A
Electrical protection class: Class II

Module types:

PV Modules with 182mm Mono-crystalline Silicon half-cut Solar Cells:

60 cells: JAM60S30-xxx/MR/1000V (xxx=435-460, in steps of 5)
66 cells: JAM66S30-xxx/MR/1000V (xxx=470-510, in steps of 5)
72 cells: JAM72S30-xxx/MR/1000V (xxx=510-560, in steps of 5)
78 cells: JAM78S30-xxx/MR/1000V (xxx=580-605, in steps of 5)
54 cells: JAM54S30-xxx/MR/1000V (xxx=390-425, in steps of 5)
78 cells: JAM78S30-xxx/GR/1000V (xxx=575-610, in steps of 5)
72 cells: JAM72S30-xxx/GR/1000V (xxx=510-560, in steps of 5)
66 cells: JAM66S30-xxx/GR/1000V (xxx=500-510, in steps of 5)
60 cells: JAM60S30-xxx/GR/1000V (xxx=445-470, in steps of 5)
54 cells: JAM54S30-xxx/GR/1000V (xxx=400-420, in steps of 5)
72 cells: JAM72S31-xxx/MR/1000V (xxx=510-545, in steps of 5)
66 cells: JAM66S31-xxx/MR/1000V (xxx=470-500, in steps of 5)
60 cells: JAM60S31-xxx/MR/1000V (xxx=425-450, in steps of 5)



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54 cells: JAM54S31-xxx/MR/1000V (xxx=385-415, in steps of 5)
78 cells: JAM78S31-xxx/GR/1000V (xxx=575-590, in steps of 5)
72 cells: JAM72S31-xxx/GR/1000V (xxx=525-545, in steps of 5)
66 cells: JAM66S31-xxx/GR/1000V (xxx=480-500, in steps of 5)
60 cells: JAM60S31-xxx/GR/1000V (xxx=435-450, in steps of 5)
54 cells: JAM54S31-xxx/GR/1000V (xxx=395-415, in steps of 5)
72 cells: JAM72S40-xxx/GR/1000V (xxx=540-575, in steps of 5)
66 cells: JAM66S40-xxx/GR/1000V (xxx=495-525, in steps of 5)
60 cells: JAM60S40-xxx/GR/1000V (xxx=450-480, in steps of 5)
54 cells: JAM54S40-xxx/GR/1000V (xxx=405-430, in steps of 5)
72 cells: JAM72S41-xxx/GR/1000V (xxx=540-570, in steps of 5)
66 cells: JAM66S41-xxx/GR/1000V (xxx=495-525, in steps of 5)
60 cells: JAM60S41-xxx/GR/1000V (xxx=450-475, in steps of 5)
54 cells: JAM54S41-xxx/GR/1000V (xxx=405-430, in steps of 5)
72 cells: JAM72S30-xxx/LR/1000V (xxx=555-580, in steps of 5)
54 cells: JAM54S30-xxx/LR/1000V (xxx=415-435, in steps of 5)
54 cells: JAM54S31-xxx/LR/1000V (xxx=415-425, in steps of 5)
72 cells: JAM72S30-xxx/MB/1000V (xxx=535-550, in steps of 5)
72 cells: JAM72S31-xxx/MB/1000V (xxx=525-540, in steps of 5)
54 cells: JAM54S30-xxx/MB/1000V (xxx=385-410, in steps of 5)
54 cells: JAM54S31-xxx/MB/1000V (xxx=385-405, in steps of 5)
54 cells: JAM54S30-xxx/LB/1000V (xxx=410-425, in steps of 5)
54 cells: JAM54S31-xxx/LB/1000V (xxx=410-415, in steps of 5)

Maximum system voltage: 1000V
Fuse rating: 25A
Application class: Class A
Electrical protection class: Class II

Module types: **PV Modules with 210mm Mono-crystalline Silicon 1/3-cut Solar Cells:**

50 cells: JAM50S40-xxx/MR/1000V (xxx=490-500, in steps of 5)
66 cells: JAM66S35-xxx/MR/1000V (xxx=650-670, in steps of 5)
60 cells: JAM60S35-xxx/MR/1000V (xxx=590-610, in steps of 5)

Maximum system voltage: 1000V
Fuse rating: 25A
Application class: Class A
Electrical protection class: Class II



Module types: **PV Modules with 182mm Mono-crystalline Silicon 1/5-cut Solar Cells:**
76 cells: JAM76S11-xxx/PR(B)/1000V (xxx=395-415, in steps of 5)

Maximum system voltage: 1000V

Fuse rating: 25A

Application class: Class A

Electrical protection class: Class II

Module types: **PV Modules with Poly-crystalline Silicon Solar Cells (156mm to 158.75mm):**

72 cells: JAP6-72-xxx/3BB (xxx=250-330, in steps of 5)

72 cells: JAP6-72-xxx/4BB (xxx=305-330, in steps of 5)

72 cells: JAP6-72-xxx/RE (xxx=305-330, in steps of 5)

72 cells: JAP6-72-xxx/4BB/RE (xxx=305-330, in steps of 5)

72 cells: JAP6(K)-72-xxx/4BB (xxx=310-330, in steps of 5)

72 cells: JAP72S01-xxx/SC/1000V (xxx=310-345, in steps of 5)

72 cells: JAP72S01-xxx/PR/1000V (xxx=330-345, in steps of 5)

72 cells: JAP72S09-xxx/SC/1000V (xxx=320-345, in steps of 5)

72 cells: JAP72S01-xxx/MS/1000V (xxx=325-340, in steps of 5)

72 cells: JAP72S02-xxx/SC/1000V (xxx=310-345, in steps of 5)

72 cells: JAP72S02-xxx/PR/1000V (xxx=330-345, in steps of 5)

60 cells: JAP6-60-xxx/3BB (xxx=240-275, in steps of 5)

60 cells: JAP6(FA)-60-xxx/3BB (xxx=250-270, in steps of 5)

60 cells: JAP6-60-xxx/4BB (xxx=250-275, in steps of 5)

60 cells: JAP6-60-xxx/RE (xxx=255-280, in steps of 5)

60 cells: JAP6-60-xxx/4BB/RE (xxx=255-280, in steps of 5)

60 cells: JAP6(K)-60-xxx/4BB (xxx=255-275, in steps of 5)

60 cells: JAP60S01-xxx/SC/1000V (xxx=255-290, in steps of 5)

60 cells: JAP60S01-xxx/PR/1000V (xxx=275-285, in steps of 5)

60 cells: JAP60S09-xxx/SC/1000V (xxx=265-290, in steps of 5)

60 cells: JAP60S01-xxx/MS/1000V (xxx=270-280, in steps of 5)

60 cells: JAP60S02-xxx/SC/1000V (xxx=255-290, in steps of 5)

60 cells: JAP60S02-xxx/PR/1000V (xxx=275-285, in steps of 5)

54 cells: JAP54S01-xxx/SC (xxx=245-255, in steps of 5)

48 cells: JAP6(FA)-48-xxx/3BB (xxx=200-220, in steps of 5)

48 cells: JAP6-48-xxx/3BB (xxx=200-220, in steps of 5)

Maximum system voltage: 1000V

Fuse rating: 20A



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Application class: Class A
Electrical protection class: Class II

Module types: **PV Modules with Poly-crystalline Silicon half-cut Solar Cells (156mm to 158.75mm):**

72 cells: JAP72S03-xxx/SC/1000V (xxx=320-345, in steps of 5)

72 cells: JAP72S03-xxx/PR/1000V (xxx=335-355, in steps of 5)

72 cells: JAP72S10-xxx/SC/1000V (xxx=335-350, in steps of 5)

72 cells: JAP72S03-xxx/MS/1000V (xxx=320-345, in steps of 5)

72 cells: JAP72S08-xxx/SC/1000V (xxx=320-345, in steps of 5)

72 cells: JAP72S08-xxx/PR/1000V (xxx=335-355, in steps of 5)

60 cells: JAP60S03-xxx/SC/1000V (xxx=270-290, in steps of 5)

60 cells: JAP60S03-xxx/PR/1000V (xxx=280-295, in steps of 5)

60 cells: JAP60S10-xxx/SC/1000V (xxx=275-290, in steps of 5)

60 cells: JAP60S03-xxx/MS/1000V (xxx=270-285, in steps of 5)

60 cells: JAP60S08-xxx/SC/1000V (xxx=270-290, in steps of 5)

60 cells: JAP60S08-xxx/PR/1000V (xxx=280-295, in steps of 5)

Maximum system voltage: 1000V

Fuse rating: 20A

Application class: Class A

Electrical protection class: Class II

Module types: **PV Modules with Mono-crystalline Silicon Solar Cells (156mm to 158.75mm):**

72 cells: JAM6(K)-72-xxx/PR/1500V (xxx=345-370, in steps of 5)

72 cells: JAM6(K)-72-xxx/4BB/1500V (xxx=320-345, in steps of 5)

72 cells: JAM72S01-xxx/PR (xxx=345-390, in steps of 5)

72 cells: JAM72S01-xxx/SC/1500V (xxx=320-365, in steps of 5)

72 cells: JAM72S01-xxx/MR/1500V (xxx=365-385, in steps of 5)

72 cells: JAM72S09-xxx/PR/1500V (xxx=370-405, in steps of 5)

72 cells: JAM72S09-xxx/BP/1500V (xxx=375-385, in steps of 5)

72 cells: JAM72S02-xxx/PR/1500V (xxx=345-390, in steps of 5)

72 cells: JAM72S02-xxx/SC/1500V (xxx=320-365, in steps of 5)

72 cells: JAM72S02-xxx/MR/1500V (xxx=365-385, in steps of 5)

72 cells: JAM72S12-xxx/PR/1500V (xxx=365-385, in steps of 5)

60 cells: JAM6(K)-60-xxx/PR/1500V (xxx=285-310, in steps of 5)

60 cells: JAM6(K)-60-xxx/4BB/1500V (xxx=265-285, in steps of 5)

60 cells: JAM60S01-xxx/PR/1500V (xxx=285-325, in steps of 5)



60 cells: JAM60S01-xxx/SC/1500V (xxx=265-305, in steps of 5)
60 cells: JAM60S01-xxx/MR/1500V (xxx=305-320, in steps of 5)
60 cells: JAM60S09-xxx/PR/1500V (xxx=310-335, in steps of 5)
60 cells: JAM60S09-xxx/BP/1500V (xxx=315-320, in steps of 5)
60 cells: JAM60S02-xxx/PR/1500V (xxx=285-325, in steps of 5)
60 cells: JAM60S02-xxx/SC/1500V (xxx=265-305, in steps of 5)
60 cells: JAM60S02-xxx/MR/1500V (xxx=305-320, in steps of 5)
60 cells: JAM60S12-xxx/PR/1500V (xxx=305-330, in steps of 5)
72 cells: JAM6(K)(DG)-72-xxx/PR/1500V (xxx=330-365, in steps of 5)
72 cells: JAM6(K)(DG)-72-xxx/4BB/1500V (xxx=320-340, in steps of 5)
72 cells: JAM72D00-xxx/PR (xxx=340-385, in steps of 5)
72 cells: JAM72D00-xxx/PR/1500V (xxx=340-385, in steps of 5)
72 cells: JAM72D00-xxx/SC (xxx=320-340, in steps of 5)
72 cells: JAM72D00-xxx/BP (xxx=330-385, in steps of 5)
72 cells: JAM72D00-xxx/BP/1500V (xxx=330-385, in steps of 5)
72 cells: JAM72D00-xxx/MB (xxx=370-380, in steps of 5)
72 cells: JAM72D00-xxx/MB/1500V (xxx=370-380, in steps of 5)
72 cells: JAM72D09-xxx/BP (xxx=360-400, in steps of 5)
72 cells: JAM72D09-xxx/BP/1500V (xxx=360-400, in steps of 5)
60 cells: JAM6(DG)-60-xxx/1500V (xxx=250-270, in steps of 5)
60 cells: JAM6(K)(DG)-60-xxx/4BB/1500V (xxx=260-285, in steps of 5)
60 cells: JAM6(K)(DG)-60-xxx/PR/1500V (xxx=270-305, in steps of 5)
60 cells: JAM6(DG)-60-xxx/4BB/1500V (xxx=260-280, in steps of 5)
60 cells: JAM60D00-xxx/PR (xxx=285-320, in steps of 5)
60 cells: JAM60D00-xxx/PR/1500V (xxx=285-320, in steps of 5)
60 cells: JAM60D00-xxx/SC (xxx=260-285, in steps of 5)
60 cells: JAM60D00-xxx/BP (xxx=275-320, in steps of 5)
60 cells: JAM60D00-xxx/BP/1500V (xxx=275-320, in steps of 5)
60 cells: JAM60D00-xxx/MB (xxx=310-315, in steps of 5)
60 cells: JAM60D00-xxx/MB/1500V (xxx=310-315, in steps of 5)
60 cells: JAM60D09-xxx/BP (xxx=300-340, in steps of 5)
60 cells: JAM60D09-xxx/BP/1500V (xxx=300-340, in steps of 5)

Maximum system voltage: 1500V
Fuse rating: 20A
Application class: Class A
Electrical protection class: Class II



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Module types:

PV Modules with Mono-crystalline Silicon half-cut Solar Cells (156mm to 158.75mm):

72 cells: JAM72S03-xxx/PR/1500V (xxx=360-395, in steps of 5)

72 cells: JAM72S10-xxx/PR/1500V (xxx=380-410, in steps of 5)

72 cells: JAM72S10-xxx/BP/1500V (xxx=385-400, in steps of 5)

72 cells: JAM72S10-xxx/MR/1500V (xxx=390-430, in steps of 5)

72 cells: JAM72S10-xxx/MB/1500V (xxx=395-415, in steps of 5)

72 cells: JAM72S08-xxx/PR/1500V (xxx=360-395, in steps of 5)

72 cells: JAM72S17-xxx/PR/1500V (xxx=380-390, in steps of 5)

72 cells: JAM72S17-xxx/MR/1500V (xxx=390-430, in steps of 5)

72 cells: JAM72S17-xxx/GR/1500V (xxx=385-400, in steps of 5)

60 cells: JAM60S03-xxx/PR/1500V (xxx=300-330, in steps of 5)

60 cells: JAM60S10-xxx/PR/1500V (xxx=315-345, in steps of 5)

60 cells: JAM60S10-xxx/BP/1500V (xxx=320-330, in steps of 5)

60 cells: JAM60S10-xxx/MR/1500V (xxx=325-355, in steps of 5)

60 cells: JAM60S10-xxx/MB/1500V (xxx=330-345, in steps of 5)

60 cells: JAM60S20-xxx/MR/1500V (xxx=355-390, in steps of 5)

60 cells: JAM60S21-xxx/MR/1500V (xxx=355-390, in steps of 5)

60 cells: JAM60S08-xxx/PR/1500V (xxx=300-330, in steps of 5)

60 cells: JAM60S17-xxx/PR/1500V (xxx=315-325, in steps of 5)

60 cells: JAM60S17-xxx/MR/1500V (xxx=315-355, in steps of 5)

78 cells: JAM78S10-xxx/MR/1500V (xxx=435-465, in steps of 5)

66 cells: JAM66S10-xxx/MR/1500V (xxx=345-390, in steps of 5)

72 cells: JAM72D10-xxx/MB (xxx=385-430, in steps of 5)

72 cells: JAM72D10-xxx/MB/1500V (xxx=385-430, in steps of 5)

60 cells: JAM60D10-xxx/MB (xxx=320-355, in steps of 5)

60 cells: JAM60D10-xxx/MB/1500V (xxx=320-355, in steps of 5)

72 cells: JAM72D10-xxx/BP (xxx=385-415, in steps of 5)

72 cells: JAM72D10-xxx/BP/1500V (xxx=385-415, in steps of 5)

60 cells: JAM60D10-xxx/BP (xxx=320-345, in steps of 5)

60 cells: JAM60D10-xxx/BP/1500V (xxx=320-345, in steps of 5)

78 cells: JAM78D10-xxx/MB (xxx=435-455, in steps of 5)

78 cells: JAM78D10-xxx/MB/1500V (xxx=435-455, in steps of 5)

66 cells: JAM66D10-xxx/MB (xxx=360-380, in steps of 5)

66 cells: JAM66D10-xxx/MB/1500V (xxx=360-380, in steps of 5)

72 cells: JAM72D20-xxx/MB (xxx=430-465, in steps of 5)

72 cells: JAM72D20-xxx/MB/1500V (xxx=430-465, in steps of 5)

60 cells: JAM60D20-xxx/MB (xxx=355-385, in steps of 5)

60 cells: JAM60D20-xxx/MB/1500V (xxx=355-385, in steps of 5)

72 cells: JAM72D10-xxx/TB (xxx=400-420, in steps of 5)



72 cells: JAM72D10-xxx/TB/1500V (xxx=400-420, in steps of 5)
60 cells: JAM60D10-xxx/TB (xxx=335-350, in steps of 5)
60 cells: JAM60D10-xxx/TB/1500V (xxx=335-350, in steps of 5)

Maximum system voltage: 1500V
Fuse rating: 20A
Application class: Class A
Electrical protection class: Class II

Module types: **PV Modules with Mono-crystalline Silicon half-cut Solar Cells (166mm to 168mm):**

72 cells: JAM72S20-xxx/MR/1500V (xxx=430-470, in steps of 5)
72 cells: JAM72S20-xxx/MB/1500V (xxx=450-465, in steps of 5)
60 cells: JAM60S20-xxx/MB/1500V (xxx=375-390, in steps of 5)

Maximum system voltage: 1500V
Fuse rating: 25A
Application class: Class A
Electrical protection class: Class II

Module types: **PV Modules with 182mm Mono-crystalline Silicon half-cut Solar Cells:**

78 cells: JAM78S30-xxx/MR/1500V (xxx=580-605, in steps of 5)
72 cells: JAM72S30-xxx/MR/1500V (xxx=510-560, in steps of 5)
66 cells: JAM66S30-xxx/MR/1500V (xxx=470-510, in steps of 5)
60 cells: JAM60S30-xxx/MR/1500V (xxx=435-460, in steps of 5)
54 cells: JAM54S30-xxx/MR/1500V (xxx=390-425, in steps of 5)
78 cells: JAM78S30-xxx/GR/1500V (xxx=575-610, in steps of 5)
72 cells: JAM72S30-xxx/GR/1500V (xxx=510-560, in steps of 5)
66 cells: JAM66S30-xxx/GR/1500V (xxx=500-510, in steps of 5)
60 cells: JAM60S30-xxx/GR/1500V (xxx=445-470, in steps of 5)
54 cells: JAM54S30-xxx/GR/1500V (xxx=400-420, in steps of 5)
72 cells: JAM72S31-xxx/MR/1500V (xxx=510-545, in steps of 5)
66 cells: JAM66S31-xxx/MR/1500V (xxx=470-500, in steps of 5)
60 cells: JAM60S31-xxx/MR/1500V (xxx=425-450, in steps of 5)
54 cells: JAM54S31-xxx/MR/1500V (xxx=385-415, in steps of 5)
78 cells: JAM78S31-xxx/GR/1500V (xxx=575-590, in steps of 5)
72 cells: JAM72S31-xxx/GR/1500V (xxx=525-545, in steps of 5)
66 cells: JAM66S31-xxx/GR/1500V (xxx=480-500, in steps of 5)
60 cells: JAM60S31-xxx/GR/1500V (xxx=435-450, in steps of 5)



54 cells: JAM54S31-xxx/GR/1500V (xxx=395-415, in steps of 5)
72 cells: JAM72S40-xxx/GR/1500V (xxx=540-575, in steps of 5)
66 cells: JAM66S40-xxx/GR/1500V (xxx=495-525, in steps of 5)
60 cells: JAM60S40-xxx/GR/1500V (xxx=450-480, in steps of 5)
54 cells: JAM54S40-xxx/GR/1500V (xxx=405-430, in steps of 5)
72 cells: JAM72S41-xxx/GR/1500V (xxx=540-570, in steps of 5)
66 cells: JAM66S41-xxx/GR/1500V (xxx=495-525, in steps of 5)
60 cells: JAM60S41-xxx/GR/1500V (xxx=450-475, in steps of 5)
54 cells: JAM54S41-xxx/GR/1500V (xxx=405-430, in steps of 5)
72 cells: JAM72S30-xxx/LR/1500V (xxx=555-580, in steps of 5)
54 cells: JAM54S30-xxx/LR/1500V (xxx=415-435, in steps of 5)
54 cells: JAM54S31-xxx/LR/1500V (xxx=415-425, in steps of 5)
72 cells: JAM72S30-xxx/MB/1500V (xxx=535-550, in steps of 5)
72 cells: JAM72S31-xxx/MB/1500V (xxx=525-540, in steps of 5)
54 cells: JAM54S30-xxx/MB/1500V (xxx=385-410, in steps of 5)
54 cells: JAM54S31-xxx/MB/1500V (xxx=385-405, in steps of 5)
54 cells: JAM54S30-xxx/LB/1500V (xxx=410-425, in steps of 5)
54 cells: JAM54S31-xxx/LB/1500V (xxx=410-415, in steps of 5)
78 cells: JAM78D30-xxx/MB (xxx=580-605, in steps of 5)
78 cells: JAM78D30-xxx/MB/1500V (xxx=580-605, in steps of 5)
72 cells: JAM72D30-xxx/MB (xxx=505-560, in steps of 5)
72 cells: JAM72D30-xxx/MB/1500V (xxx=505-560, in steps of 5)
72 cells: JAM72D30-xxx/MB/F (xxx=505-560, in steps of 5)
72 cells: JAM72D30-xxx/MB/F/1500V (xxx=505-560, in steps of 5)
66 cells: JAM66D30-xxx/MB (xxx=465-505, in steps of 5)
66 cells: JAM66D30-xxx/MB/1500V (xxx=465-505, in steps of 5)
66 cells: JAM66D30-xxx/MB/F (xxx=465-505, in steps of 5)
66 cells: JAM66D30-xxx/MB/F/1500V (xxx=465-505, in steps of 5)
60 cells: JAM60D30-xxx/MB (xxx=435-460, in steps of 5)
60 cells: JAM60D30-xxx/MB/1500V (xxx=435-460, in steps of 5)
54 cells: JAM54D30-xxx/MB (xxx=390-415, in steps of 5)
54 cells: JAM54D30-xxx/MB/1500V (xxx=390-415, in steps of 5)
54 cells: JAM54D31-xxx/MB (xxx=395-400, in steps of 5)
54 cells: JAM54D31-xxx/MB/1500V (xxx=395-400, in steps of 5)
78 cells: JAM78D30-xxx/GB (xxx=585-610, in steps of 5)
78 cells: JAM78D30-xxx/GB/1500V (xxx=585-610, in steps of 5)
72 cells: JAM72D30-xxx/GB (xxx=505-560, in steps of 5)
72 cells: JAM72D30-xxx/GB/1500V (xxx=505-560, in steps of 5)
66 cells: JAM66D30-xxx/GB (xxx=495-510, in steps of 5)
66 cells: JAM66D30-xxx/GB/1500V (xxx=495-510, in steps of 5)



60 cells: JAM60D30-xxx/GB (xxx=450-470, in steps of 5)
60 cells: JAM60D30-xxx/GB/1500V (xxx=450-470, in steps of 5)
54 cells: JAM54D30-xxx/GB (xxx=405-420, in steps of 5)
54 cells: JAM54D30-xxx/GB/1500V (xxx=405-420, in steps of 5)
54 cells: JAM54D31-xxx/GB (xxx=410-420, in steps of 5)
54 cells: JAM54D31-xxx/GB/1500V (xxx=410-420, in steps of 5)
72 cells: JAM72D30-xxx/HB (xxx=530-560, in steps of 5)
72 cells: JAM72D30-xxx/HB/1500V (xxx=530-560, in steps of 5)
78 cells: JAM78D30-xxx/TB (xxx=580-630, in steps of 5)
78 cells: JAM78D30-xxx/TB/1500V (xxx=580-630, in steps of 5)
72 cells: JAM72D30-xxx/TB (xxx=540-580, in steps of 5)
72 cells: JAM72D30-xxx/TB/1500V (xxx=540-580, in steps of 5)
78 cells: JAM78D40-xxx/MB (xxx=580-635, in steps of 5)
78 cells: JAM78D40-xxx/MB/1500V (xxx=580-635, in steps of 5)
72 cells: JAM72D40-xxx/MB (xxx=540-590, in steps of 5)
72 cells: JAM72D40-xxx/MB/1500V (xxx=540-590, in steps of 5)
66 cells: JAM66D40-xxx/MB (xxx=500-535, in steps of 5)
66 cells: JAM66D40-xxx/MB/1500V (xxx=500-535, in steps of 5)
60 cells: JAM60D40-xxx/MB (xxx=455-485, in steps of 5)
60 cells: JAM60D40-xxx/MB/1500V (xxx=455-485, in steps of 5)
54 cells: JAM54D40-xxx/MB (xxx=405-440, in steps of 5)
54 cells: JAM54D40-xxx/MB/1500V (xxx=405-440, in steps of 5)
78 cells: JAM78D40-xxx/GB (xxx=580-635, in steps of 5)
78 cells: JAM78D40-xxx/GB/1500V (xxx=580-635, in steps of 5)
72 cells: JAM72D40-xxx/GB (xxx=540-590, in steps of 5)
72 cells: JAM72D40-xxx/GB/1500V (xxx=540-590, in steps of 5)
66 cells: JAM66D40-xxx/GB (xxx=500-535, in steps of 5)
66 cells: JAM66D40-xxx/GB/1500V (xxx=500-535, in steps of 5)
60 cells: JAM60D40-xxx/GB (xxx=455-485, in steps of 5)
60 cells: JAM60D40-xxx/GB/1500V (xxx=455-485, in steps of 5)
54 cells: JAM54D40-xxx/GB (xxx=405-440, in steps of 5)
54 cells: JAM54D40-xxx/GB/1500V (xxx=405-440, in steps of 5)
54 cells: JAM54D41-xxx/GB (xxx=415-435, in steps of 5)
54 cells: JAM54D41-xxx/GB/1500V (xxx=415-435, in steps of 5)
72 cells: JAM72D30-xxx/LB (xxx=555-575, in steps of 5)
72 cells: JAM72D30-xxx/LB/1500V (xxx=555-575, in steps of 5)
54 cells: JAM54D30-xxx/LB (xxx=420-430, in steps of 5)
54 cells: JAM54D30-xxx/LB/1500V (xxx=420-430, in steps of 5)
66 cells: JAM66D42-xxx/MB (xxx=540-595, in steps of 5)
66 cells: JAM66D42-xxx/MB/1500V (xxx=540-595, in steps of 5)



Maximum system voltage: 1500V
Fuse rating: 25A or 30A
Application class: Class A
Electrical protection class: Class II

Module types:

PV Modules with 182mm Mono-crystalline Silicon half-cut or Asymmetric cut Solar Cells:

72 cells: JAM72D40-xxx/LB (xxx=560-600, in steps of 5)
72 cells: JAM72D40-xxx/LB/1500V (xxx=560-600, in steps of 5)
60 cells: JAM60D40-xxx/LB (xxx=485-500, in steps of 5)
60 cells: JAM60D40-xxx/LB/1500V (xxx=485-500, in steps of 5)
54 cells: JAM54D40-xxx/LB (xxx=420-450, in steps of 5)
54 cells: JAM54D40-xxx/LB/1500V (xxx=420-450, in steps of 5)
54 cells: JAM54D41-xxx/LB (xxx=420-440, in steps of 5)
54 cells: JAM54D41-xxx/LB/1500V (xxx=420-440, in steps of 5)
72 cells: JAM72D42-xxx/LB (xxx=590-635, in steps of 5)
72 cells: JAM72D42-xxx/LB/1500V (xxx=590-635, in steps of 5)
60 cells: JAM60D42-xxx/LB (xxx=500-525, in steps of 5)
60 cells: JAM60D42-xxx/LB/1500V (xxx=500-525, in steps of 5)
54 cells: JAM54D42-xxx/LB (xxx=455-470, in steps of 5)
54 cells: JAM54D42-xxx/LB/1500V (xxx=455-470, in steps of 5)
78 cells: JAM78D49-xxx/LB (xxx=585-610, in steps of 5)
78 cells: JAM78D49-xxx/LB /1500V (xxx=585-610, in steps of 5)
66 cells: JAM66D45-xxx/LB (xxx=585-610, in steps of 5)
66 cells: JAM66D45-xxx/LB /1500V (xxx=585-610, in steps of 5)
72 cells: JAM72D40-xxx/HB (xxx=585-605, in steps of 5)
72 cells: JAM72D40-xxx/HB /1500V (xxx=585-605, in steps of 5)
54 cells: JAM54D40-xxx/HB (xxx=440-450, in steps of 5)
54 cells: JAM54D40-xxx/HB /1500V (xxx=440-450, in steps of 5)
54 cells: JAM54D41-xxx/HB (xxx=430-445, in steps of 5)
54 cells: JAM54D41-xxx/HB /1500V (xxx=430-445, in steps of 5)

Maximum system voltage: 1500V
Fuse rating: 25A
Application class: Class A
Electrical protection class: Class II



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Module types: **PV Modules with 210mm Mono-crystalline Silicon 1/3-cut Solar Cells:**
50 cells: JAM50S40-xxx/MR/1500V (xxx=490-500, in steps of 5)
50 cells: JAM50D40-xxx/MB (xxx=485-500, in steps of 5)
50 cells: JAM50D40-xxx/MB/1500V (xxx=485-500, in steps of 5)

Maximum system voltage: 1500V
Fuse rating: 25A
Application class: Class A
Electrical protection class: Class II

Module types: **PV Modules with 210mm Mono-crystalline Silicon 1/2-cut Solar Cells:**
66 cells: JAM66S35-xxx/MR/1500V (xxx=650-670, in steps of 5)
60 cells: JAM60S35-xxx/MR/1500V (xxx=590-610, in steps of 5)
66 cells: JAM66D35-xxx/MB (xxx=650-665, in steps of 5)
66 cells: JAM66D35-xxx/MB/1500V (xxx=650-665, in steps of 5)
60 cells: JAM60D35-xxx/MB (xxx=590-605, in steps of 5)
60 cells: JAM60D35-xxx/MB/1500V (xxx=590-605, in steps of 5)

Maximum system voltage: 1500V
Fuse rating: 25A
Application class: Class A
Electrical protection class: Class II

Module types: **PV Modules with 182mm Mono-crystalline Silicon 1/5-cut Solar Cells:**
76 cells: JAM76S11-xxx/PR(B)/1500V (xxx=395-415, in steps of 5)

Maximum system voltage: 1500V
Fuse rating: 25A
Application class: Class A
Electrical protection class: Class II

Module types: **PV Modules with Poly-crystalline Silicon Solar Cells (156mm to 158.75mm):**
72 cells: JAP6(K)-72-xxx/4BB/1500V (xxx=310-330, in steps of 5)
72 cells: JAP72S01-xxx/SC/1500V (xxx=310-345, in steps of 5)
72 cells: JAP72S01-xxx/PR/1500V (xxx=330-345, in steps of 5)
72 cells: JAP72S09-xxx/SC/1500V (xxx=320-345, in steps of 5)



72 cells: JAP72S01-xxx/MS/1500V (xxx=325-340, in steps of 5)
72 cells: JAP72S02-xxx/SC/1500V (xxx=310-345, in steps of 5)
72 cells: JAP72S02-xxx/PR/1500V (xxx=330-345, in steps of 5)
60 cells: JAP6(K)-60-xxx/4BB/1500V (xxx=255-275, in steps of 5)
60 cells: JAP60S01-xxx/SC/1500V (xxx=255-290, in steps of 5)
60 cells: JAP60S01-xxx/PR/1500V (xxx=275-285, in steps of 5)
60 cells: JAP60S09-xxx/SC/1500V (xxx=265-290, in steps of 5)
60 cells: JAP60S01-xxx/MS/1500V (xxx=270-280, in steps of 5)
60 cells: JAP60S02-xxx/SC/1500V (xxx=255-290, in steps of 5)
60 cells: JAP60S02-xxx/PR/1500V (xxx=275-285, in steps of 5)
72 cells: JAP6(DG)-72-xxx/4BB/1500V (xxx=305-325, in steps of 5)
72 cells: JAP6(DG)-72-xxx/3BB/1500V (xxx=305-315, in steps of 5)
72 cells: JAP6(DG)-72-xxx/4BB/RE/1500V (xxx=310-335, in steps of 5)
72 cells: JAP6(K)(DG)-72-xxx/4BB/1500V (xxx=310-335, in steps of 5)
72 cells: JAP72D00-xxx/SC (xxx=305-345, in steps of 5)
72 cells: JAP72D00-xxx/SC/1500V (xxx=310-340, in steps of 5)
72 cells: JAP72D00-xxx/PR (xxx=330-350, in steps of 5)
72 cells: JAP72D00-xxx/PR/1500V (xxx=330-345, in steps of 5)
72 cells: JAP72D09-xxx/SC (xxx=325-345, in steps of 5)
72 cells: JAP72D09-xxx/SC/1500V (xxx=330-345, in steps of 5)
60 cells: JAP6(DG)-60-xxx/4BB/1500V (xxx=250-275, in steps of 5)
60 cells: JAP6(DG)-60-xxx/3BB/1500V (xxx=245-265, in steps of 5)
60 cells: JAP6(DG)-60-xxx/4BB/RE/1500V (xxx=255-280, in steps of 5)
60 cells: JAP6(K)(DG)-60-xxx/4BB/1500V (xxx=255-280, in steps of 5)
60 cells: JAP60D00-xxx/SC (xxx=255-290, in steps of 5)
60 cells: JAP60D00-xxx/SC/1500V (xxx=260-285, in steps of 5)
60 cells: JAP60D00-xxx/PR (xxx=275-290, in steps of 5)
60 cells: JAP60D00-xxx/PR/1500V (xxx=275-290, in steps of 5)
60 cells: JAP60D09-xxx/SC (xxx=270-290, in steps of 5)
60 cells: JAP60D09-xxx/SC/1500V (xxx=275-290, in steps of 5)

Maximum system voltage: 1500V
Fuse rating: 20A
Application class: Class A
Electrical protection class: Class II

Module types: **PV Modules with Poly-crystalline Silicon half-cut Solar Cells (156mm to 158.75mm):**
72 cells: JAP72S03-xxx/SC/1500V (xxx=320-345, in steps of 5)
72 cells: JAP72S03-xxx/PR/1500V (xxx=335-355, in steps of 5)



72 cells: JAP72S10-xxx/SC/1500V (xxx=335-350, in steps of 5)
72 cells: JAP72S03-xxx/MS/1500V (xxx=320-345, in steps of 5)
72 cells: JAP72S08-xxx/SC/1500V (xxx=320-345, in steps of 5)
72 cells: JAP72S08-xxx/PR/1500V (xxx=335-355, in steps of 5)
60 cells: JAP60S03-xxx/SC/1500V (xxx=270-290, in steps of 5)
60 cells: JAP60S03-xxx/PR/1500V (xxx=280-295, in steps of 5)
60 cells: JAP60S10-xxx/SC/1500V (xxx=275-290, in steps of 5)
60 cells: JAP60S03-xxx/MS/1500V (xxx=270-285, in steps of 5)
60 cells: JAP60S08-xxx/SC/1500V (xxx=270-290, in steps of 5)
60 cells: JAP60S08-xxx/PR/1500V (xxx=280-295, in steps of 5)

Maximum system voltage: 1500V
Fuse rating: 20A
Application class: Class A
Electrical protection class: Class II

Module types: **PV Modules with Mono-crystalline Silicon Solar Cells (156mm to 158.75mm):**

72 cells: JAM72S01-xxx/SC (xxx=320-365, in steps of 5)
72 cells: JAM72S02-xxx/SC (xxx=320-365, in steps of 5)
72 cells: JAM72S02-xxx/PR (xxx=345-390, in steps of 5)
72 cells: JAM72S01-xxx/MR (xxx=365-385, in steps of 5)
72 cells: JAM72S02-xxx/MR (xxx=365-385, in steps of 5)
72 cells: JAM72S09-xxx/PR (xxx=370-405, in steps of 5)
72 cells: JAM72S12-xxx/PR (xxx=365-385, in steps of 5)
72 cells: JAM72S09-xxx/BP (xxx=375-385, in steps of 5)
60 cells: JAM60S01-xxx/SC (xxx=265-305, in steps of 5)
60 cells: JAM60S02-xxx/SC (xxx=265-305, in steps of 5)
60 cells: JAM60S01-xxx/PR (xxx=285-325, in steps of 5)
60 cells: JAM60S02-xxx/PR (xxx=285-325, in steps of 5)
60 cells: JAM60S01-xxx/MR (xxx=305-320, in steps of 5)
60 cells: JAM60S02-xxx/MR (xxx=305-320, in steps of 5)
60 cells: JAM60S09-xxx/PR (xxx=310-335, in steps of 5)
60 cells: JAM60S12-xxx/PR (xxx=305-330, in steps of 5)
60 cells: JAM60S09-xxx/BP (xxx=315-320, in steps of 5)

Maximum system voltage: 1000V or 1500V
Fuse rating: 20A
Application class: Class A
Electrical protection class: Class II



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Module types:

PV Modules with Mono-crystalline Silicon half-cut Solar Cells (156mm to 158.75mm):

72 cells: JAM72S03-xxx/PR (xxx=360-395, in steps of 5)
72 cells: JAM72S10-xxx/PR (xxx=380-410, in steps of 5)
72 cells: JAM72S17-xxx/PR (xxx=380-390, in steps of 5)
72 cells: JAM72S10-xxx/MR (xxx=390-430, in steps of 5)
72 cells: JAM72S17-xxx/MR (xxx=390-430, in steps of 5)
72 cells: JAM72S17-xxx/GR (xxx=385-400, in steps of 5)
72 cells: JAM72S10-xxx/BP (xxx=385-400, in steps of 5)
72 cells: JAM72S10-xxx/MB (xxx=395-415, in steps of 5)
72 cells: JAM72S08-xxx/PR (xxx=360-395, in steps of 5)
60 cells: JAM60S03-xxx/PR (xxx=300-330, in steps of 5)
60 cells: JAM60S08-xxx/PR (xxx=300-330, in steps of 5)
60 cells: JAM60S10-xxx/PR (xxx=315-345, in steps of 5)
60 cells: JAM60S10-xxx/MR (xxx=325-355, in steps of 5)
60 cells: JAM60S10-xxx/BP (xxx=320-330, in steps of 5)
60 cells: JAM60S10-xxx/MB (xxx=330-345, in steps of 5)
60 cells: JAM60S17-xxx/PR (xxx=315-325, in steps of 5)
60 cells: JAM60S17-xxx/MR (xxx=315-355, in steps of 5)
78 cells: JAM78S10-xxx/MR (xxx=435-465, in steps of 5)
78 cells: JAM78S10-xxx/MR-J (xxx=435-465, in steps of 5)
66 cells: JAM66S10-xxx/MR (xxx=345-390, in steps of 5)

Maximum system voltage: 1000V or 1500V

Fuse rating: 20A

Application class: Class A

Electrical protection class: Class II

Module types:

PV Modules with Mono-crystalline Silicon half-cut Solar Cells (166mm to 168mm):

72 cells: JAM72S20-xxx/MR (xxx=430-470, in steps of 5)
72 cells: JAM72S20-xxx/MB (xxx=450-465, in steps of 5)
60 cells: JAM60S20-xxx/MR (xxx=355-390, in steps of 5)
60 cells: JAM60S21-xxx/MR (xxx=355-390, in steps of 5)
60 cells: JAM60S20-xxx/MB (xxx=375-390, in steps of 5)

Maximum system voltage: 1000V or 1500V

Fuse rating: 20A

Application class: Class A



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Electrical protection class: Class II

Module types:

PV Modules with 182mm Mono-crystalline Silicon half-cut Solar Cells:

78 cells: JAM78S30-xxx/MR (xxx=580-605, in steps of 5)

72 cells: JAM72S30-xxx/MR (xxx=510-560, in steps of 5)

66 cells: JAM66S30-xxx/MR (xxx=470-510, in steps of 5)

60 cells: JAM60S30-xxx/MR (xxx=435-460, in steps of 5)

54 cells: JAM54S30-xxx/MR (xxx=390-425, in steps of 5)

78 cells: JAM78S30-xxx/GR (xxx=575-610, in steps of 5)

72 cells: JAM72S30-xxx/GR (xxx=510-560, in steps of 5)

66 cells: JAM66S30-xxx/GR (xxx=500-510, in steps of 5)

60 cells: JAM60S30-xxx/GR (xxx=445-470, in steps of 5)

54 cells: JAM54S30-xxx/GR (xxx=400-420, in steps of 5)

72 cells: JAM72S31-xxx/MR (xxx=510-545, in steps of 5)

66 cells: JAM66S31-xxx/MR (xxx=470-500, in steps of 5)

60 cells: JAM60S31-xxx/MR (xxx=425-450, in steps of 5)

54 cells: JAM54S31-xxx/MR (xxx=385-415, in steps of 5)

78 cells: JAM78S31-xxx/GR (xxx=575-590, in steps of 5)

72 cells: JAM72S31-xxx/GR (xxx=525-545, in steps of 5)

66 cells: JAM66S31-xxx/GR (xxx=480-500, in steps of 5)

60 cells: JAM60S31-xxx/GR (xxx=435-450, in steps of 5)

54 cells: JAM54S31-xxx/GR (xxx=395-415, in steps of 5)

72 cells: JAM72S40-xxx/GR (xxx=540-575, in steps of 5)

66 cells: JAM66S40-xxx/GR (xxx=495-525, in steps of 5)

60 cells: JAM60S40-xxx/GR (xxx=450-480, in steps of 5)

54 cells: JAM54S40-xxx/GR (xxx=405-430, in steps of 5)

72 cells: JAM72S41-xxx/GR (xxx=540-570, in steps of 5)

66 cells: JAM66S41-xxx/GR (xxx=495-525, in steps of 5)

60 cells: JAM60S41-xxx/GR (xxx=450-475, in steps of 5)

54 cells: JAM54S41-xxx/GR (xxx=405-430, in steps of 5)

72 cells: JAM72S30-xxx/LR (xxx=555-580, in steps of 5)

54 cells: JAM54S30-xxx/LR (xxx=415-435, in steps of 5)

54 cells: JAM54S31-xxx/LR (xxx=415-425, in steps of 5)

72 cells: JAM72S30-xxx/MB (xxx=535-550, in steps of 5)

72 cells: JAM72S31-xxx/MB (xxx=525-540, in steps of 5)

54 cells: JAM54S30-xxx/MB (xxx=385-410, in steps of 5)

54 cells: JAM54S31-xxx/MB (xxx=385-405, in steps of 5)

54 cells: JAM54S30-xxx/LB (xxx=410-425, in steps of 5)

54 cells: JAM54S31-xxx/LB (xxx=410-415, in steps of 5)



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Maximum system voltage: 1000V or 1500V
Fuse rating: 25A
Application class: Class A
Electrical protection class: Class II

Module types: **PV Modules with 210mm Mono-crystalline Silicon 1/3-cut Solar Cells:**

50 cells: JAM50S40-xxx/MR (xxx=490-500, in steps of 5)
66 cells: JAM66S35-xxx/MR (xxx=650-670, in steps of 5)
60 cells: JAM60S35-xxx/MR (xxx=590-610, in steps of 5)

Maximum system voltage: 1000V or 1500V
Fuse rating: 25A
Application class: Class A
Electrical protection class: Class II

Module types: **PV Modules with 182mm Mono-crystalline Silicon 1/5-cut Solar Cells:**

68 cells: JAM68S11-xxx/PR (xxx=355-365, in steps of 5)
68 cells: JAM68S11-xxx/PR(B) (xxx=345-365, in steps of 5)
76 cells: JAM76S11-xxx/PR(B) (xxx=395-415, in steps of 5)

Maximum system voltage: 1000V or 1500V
Fuse rating: 25A
Application class: Class A
Electrical protection class: Class II

Module types: **PV Modules with Poly-crystalline Silicon Solar Cells (156mm to 158.75mm):**

72 cells: JAP72S01-xxx/SC (xxx=310-345, in steps of 5)
72 cells: JAP72S02-xxx/SC (xxx=310-345, in steps of 5)
72 cells: JAP72S01-xxx/PR (xxx=330-345, in steps of 5)
72 cells: JAP72S02-xxx/PR (xxx=330-345, in steps of 5)
72 cells: JAP72S09-xxx/SC (xxx=320-345, in steps of 5)
72 cells: JAP72S01-xxx/MS (xxx=325-340, in steps of 5)
60 cells: JAP60S01-xxx/SC (xxx=255-290, in steps of 5)
60 cells: JAP60S02-xxx/SC (xxx=255-290, in steps of 5)
60 cells: JAP60S01-xxx/PR (xxx=275-285, in steps of 5)
60 cells: JAP60S02-xxx/PR (xxx=275-285, in steps of 5)



	60 cells: JAP60S09-xxx/SC (xxx=265-290, in steps of 5)
	60 cells: JAP60S01-xxx/MS (xxx=270-280, in steps of 5)
	54 cells: JAP54S01-xxx/SC (xxx=245-255, in steps of 5)
Maximum system voltage:	1000V or 1500V
Fuse rating:	20A
Application class:	Class A
Electrical protection class:	Class II
Module types:	PV Modules with Poly-crystalline Silicon half-cut Solar Cells (156mm to 158.75mm):
	72 cells: JAP72S03-xxx/PR (xxx=335-355, in steps of 5)
	72 cells: JAP72S03-xxx/SC (xxx=320-345, in steps of 5)
	72 cells: JAP72S10-xxx/SC (xxx=335-350, in steps of 5)
	72 cells: JAP72S03-xxx/MS (xxx=320-345, in steps of 5)
	72 cells: JAP72S08-xxx/SC (xxx=320-345, in steps of 5)
	72 cells: JAP72S08-xxx/PR (xxx=335-355, in steps of 5)
	60 cells: JAP60S03-xxx/PR (xxx=280-295, in steps of 5)
	60 cells: JAP60S03-xxx/SC (xxx=270-290, in steps of 5)
	60 cells: JAP60S10-xxx/SC (xxx=275-290, in steps of 5)
	60 cells: JAP60S03-xxx/MS (xxx=270-285, in steps of 5)
	60 cells: JAP60S08-xxx/SC (xxx=270-290, in steps of 5)
	60 cells: JAP60S08-xxx/PR (xxx=280-295, in steps of 5)
Maximum system voltage:	1000V or 1500V
Fuse rating:	20A
Application class:	Class A
Electrical protection class:	Class II

Remark:

For detailed product information, please refer to CDF (Constructional Data Form) in Annex 1 of test report.





Product Service

CERTIFICATE

No. Z2 072092 0295 Rev. 63

Holder of Certificate: **Shanghai JA Solar Technology Co., Ltd.**
No. 118, Lane 3111
West Huancheng Road
Fengxian District
201401 Shanghai
PEOPLE'S REPUBLIC OF CHINA

Certification Mark:



Product: **Crystalline Silicon Terrestrial Photovoltaic (PV) Modules**
Mono-Crystalline Silicon Photovoltaic Module

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the testing and certification regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.: 704061604115-78

Valid until: 2028-07-30

Date, 2023-08-01

(Zhulin Zhang)

ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ CERTIFICADO ◆ CERTIFIKAT ◆ CERTIFICATE

CERTIFICATE

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Model(s):

1500 V DC Maximum System Voltage, Double Glass Modules:

JAM72D00-xxx/BP/1500V, JAM72D00-xxx/BP, xxx= 330 to 385 in steps of 5;
 JAM60D00-xxx/BP/1500V, JAM60D00-xxx/BP, xxx= 275 to 320 in steps of 5;
 JAM60D00-xxx/PR/1500V, JAM60D00-xxx/PR, xxx= 285 to 320 in steps of 5;
 JAM72D00-xxx/PR/1500V, JAM72D00-xxx/PR, xxx= 340 to 385 in steps of 5;
 JAM60D00-xxx/MB/1500V, JAM60D00-xxx/MB, xxx= 310 to 315 in steps of 5;
 JAM72D00-xxx/MB/1500V, JAM72D00-xxx/MB, xxx= 370 to 380 in steps of 5;
 JAM72D09-xxx/BP/1500V, JAM72D09-xxx/BP, xxx= 360 to 400 in steps of 5;
 JAM60D09-xxx/BP/1500V, JAM60D09-xxx/BP, xxx= 300 to 345 in steps of 5;
 JAM72D10-xxx/MB/1500V, JAM72D10-xxx/MB, xxx= 385 to 430 in steps of 5;
 JAM60D10-xxx/MB/1500V, JAM60D10-xxx/MB, xxx= 320 to 355 in steps of 5;
 JAM72D10-xxx/BP/1500V, JAM72D10-xxx/BP, xxx= 385 to 415 in steps of 5;
 JAM60D10-xxx/BP/1500V, JAM60D10-xxx/BP, xxx= 320 to 345 in steps of 5;
 JAM66D10-xxx/MB/1500V, JAM66D10-xxx/MB, xxx= 360 to 380 in steps of 5;
 JAM78D10-xxx/MB/1500V, JAM78D10-xxx/MB, xxx= 435 to 455 in steps of 5;
 JAM72D20-xxx/MB/1500V, JAM72D20-xxx/MB, xxx= 430 to 465 in steps of 5;
 JAM60D20-xxx/MB/1500V, JAM60D20-xxx/MB, xxx= 355 to 385 in steps of 5;
 JAM72D10-xxx/TB/1500V, JAM72D10-xxx/TB, xxx= 400 to 420 in steps of 5;
 JAM60D10-xxx/TB/1500V, JAM60D10-xxx/TB, xxx= 335 to 350 in steps of 5;
 JAM78D30-xxx/MB/1500V, JAM78D30-xxx/MB, xxx= 580 to 605 in steps of 5;
 JAM72D30-xxx/MB/1500V, JAM72D30-xxx/MB, xxx=505 to 555 in steps of 5;
 JAM72D30-xxx/MB/F/1500V, JAM72D30-xxx/MB/F,
 xxx=505 to 555 in steps of 5;
 JAM66D30-xxx/MB/1500V, JAM66D30-xxx/MB, xxx=465 to 505 in steps of 5;
 JAM66D30-xxx/MB/F/1500V, JAM66D30-xxx/MB/F,
 xxx=465 to 505 in steps of 5;
 JAM60D30-xxx/MB/1500V, JAM60D30-xxx/MB, xxx=435 to 460 in steps of 5;
 JAM54D30-xxx/MB/1500V, JAM54D30-xxx/MB, xxx= 390 to 415 in steps of 5;
 JAM54D31-xxx/MB/1500V, JAM54D31-xxx/MB, xxx= 395 to 400 in steps of 5;
 JAM50D40-xxx/MB/1500V, JAM50D40-xxx/MB, xxx= 485 to 500 in steps of 5;
 JAM78D30-xxx/GB/1500V, JAM78D30-xxx/GB, xxx= 585 to 610 in steps of 5;
 JAM72D30-xxx/GB/1500V, JAM72D30-xxx/GB, xxx= 540 to 560 in steps of 5;
 JAM66D30-xxx/GB/1500V, JAM66D30-xxx/GB, xxx= 495 to 510 in steps of 5;
 JAM60D30-xxx/GB/1500V, JAM60D30-xxx/GB, xxx= 450 to 470 in steps of 5;
 JAM54D30-xxx/GB/1500V, JAM54D30-xxx/GB, xxx= 405 to 420 in steps of 5;
 JAM54D31-xxx/GB/1500V, JAM54D31-xxx/GB, xxx= 410 to 420 in steps of 5;
 JAM72D30-xxx/HB/1500V, JAM72D30-xxx/HB, xxx= 530 to 560 in steps of 5;
 JAM78D40-xxx/MB/1500V, JAM78D40-xxx/MB, xxx= 580 to 630 in steps of 5;
 JAM72D40-xxx/MB/1500V, JAM72D40-xxx/MB, xxx= 540 to 585 in steps of 5;
 JAM66D40-xxx/MB/1500V, JAM66D40-xxx/MB, xxx= 500 to 535 in steps of 5;
 JAM60D40-xxx/MB/1500V, JAM60D40-xxx/MB, xxx= 455 to 485 in steps of 5;
 JAM54D40-xxx/MB/1500V, JAM54D40-xxx/MB, xxx= 405 to 440 in steps of 5;
 JAM78D40-xxx/GB/1500V, JAM78D40-xxx/GB, xxx= 580 to 635 in steps of 5;
 JAM72D40-xxx/GB/1500V, JAM72D40-xxx/GB, xxx= 540 to 585 in steps of 5;
 JAM66D40-xxx/GB/1500V, JAM66D40-xxx/GB, xxx= 500 to 535 in steps of 5;
 JAM60D40-xxx/GB/1500V, JAM60D40-xxx/GB, xxx= 455 to 485 in steps of 5;
 JAM54D40-xxx/GB/1500V, JAM54D40-xxx/GB, xxx= 405 to 440 in steps of 5;
 JAM54D41-xxx/GB/1500V, JAM54D41-xxx/GB, xxx= 415 to 435 in steps of 5;
 JAM66D35-xxx/MB/1500V, JAM66D35-xxx/MB, xxx= 650 to 665 in steps of 5;
 JAM60D35-xxx/MB/1500V, JAM60D35-xxx/MB, xxx= 590 to 605 in steps of 5;
 JAM72D30-xxx /TB/1500V, JAM72D30-xxx /TB, xxx= 540 to 580 in steps of 5;
 JAM72D40-xxx/LB/1500V, JAM72D40-xxx/LB, xxx= 575 to 600 in steps of 5;
 JAM54D40-xxx/LB/1500V, JAM54D40-xxx/LB, xxx= 420 to 450 in steps of 5;
 JAM54D41-xxx/LB/1500V, JAM54D41-xxx/LB, xxx= 420 to 440 in steps of 5;
 JAM72D42-xxx/LB/1500V, JAM72D42-xxx/LB, xxx= 605 to 630 in steps of 5;
 JAM54D42-xxx/LB/1500V, JAM54D42-xxx/LB, xxx= 455 to 470 in steps of 5;
 JAM72D30-xxx/LB/1500V, JAM72D30-xxx/LB, xxx= 555 to 575 in steps of 5;
 JAM54D30-xxx/LB/1500V, JAM54D30-xxx/LB, xxx= 420 to 430 in steps of 5;
 JAM66D45-xxx/LB/1500V, JAM66D45-xxx/LB, xxx= 585 to 605 in steps of 5;

1000 V DC Maximum System Voltage, Single Glass Modules:

JAM6(K)-72-xxx/PR, xxx= 345 to 370 in steps of 5;
 JAM6(K)-60-xxx/PR, xxx= 285 to 310 in steps of 5;
 JAM6(K)-72-xxx/4BB, xxx= 320 to 345 in steps of 5;
 JAM6(K)-60-xxx/4BB, xxx= 265 to 285 in steps of 5;
 JAM72S01-xxx/SC/1000V, xxx= 320 to 365 in steps of 5;
 JAM60S01-xxx/SC/1000V, xxx= 265 to 305 in steps of 5;
 JAM72S01-xxx/PR/1000V, xxx= 345 to 390 in steps of 5;
 JAM60S01-xxx/PR/1000V, xxx= 285 to 325 in steps of 5;
 JAM72S01-xxx/MR/1000V, xxx= 365 to 385 in steps of 5;

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JAM60S01-xxx/MR/1000V, xxx= 305 to 320 in steps of 5;
JAM72S03-xxx/PR/1000V, xxx= 360 to 395 in steps of 5;
JAM60S03-xxx/PR/1000V, xxx= 300 to 330 in steps of 5;
JAM72S09-xxx/PR/1000V, xxx= 370 to 405 in steps of 5;
JAM60S09-xxx/PR/1000V, xxx= 310 to 335 in steps of 5;
JAM72S10-xxx/PR/1000V, xxx= 380 to 410 in steps of 5;
JAM60S10-xxx/PR/1000V, xxx= 315 to 345 in steps of 5;
JAM72S10-xxx/MR/1000V, xxx= 390 to 430 in steps of 5;
JAM60S10-xxx/MR/1000V, xxx= 325 to 355 in steps of 5;
JAM60S10-xxx/MR-L/1000V, xxx= 325 to 355 in steps of 5;
JAM78S10-xxx/MR/1000V, xxx= 435 to 465 in steps of 5;
JAM66S10-xxx/MR/1000V, xxx= 345 to 390 in steps of 5;
JAM72S09-xxx/BP/1000V, xxx= 375 to 385 in steps of 5;
JAM60S09-xxx/BP/1000V, xxx= 315 to 320 in steps of 5;
JAM72S10-xxx/BP/1000V, xxx= 385 to 400 in steps of 5;
JAM60S10-xxx/BP/1000V, xxx= 320 to 330 in steps of 5;
JAM72S02-xxx/PR/1000V, xxx= 345 to 390 in steps of 5;
JAM60S02-xxx/PR/1000V, xxx= 285 to 325 in steps of 5;
JAM72S02-xxx/SC/1000V, xxx= 320 to 365 in steps of 5;
JAM60S02-xxx/SC/1000V, xxx= 265 to 305 in steps of 5;
JAM72S02-xxx/MR/1000V, xxx= 365 to 385 in steps of 5;
JAM60S02-xxx/MR/1000V, xxx= 305 to 320 in steps of 5;
JAM72S08-xxx/PR/1000V, xxx= 360 to 395 in steps of 5;
JAM60S08-xxx/PR/1000V, xxx= 300 to 330 in steps of 5;
JAM72S12-xxx/PR/1000V, xxx= 365 to 385 in steps of 5;
JAM60S12-xxx/PR/1000V, xxx= 305 to 330 in steps of 5;
JAM72S17-xxx/PR/1000V, xxx= 380 to 390 in steps of 5;
JAM60S17-xxx/PR/1000V, xxx= 315 to 325 in steps of 5;
JAM72S17-xxx/MR/1000V, xxx= 390 to 430 in steps of 5;
JAM60S17-xxx/MR/1000V, xxx= 315 to 355 in steps of 5;
JAM72S10-xxx/MB/1000V, xxx= 395 to 415 in steps of 5;
JAM60S10-xxx/MB/1000V, xxx= 330 to 345 in steps of 5;
JAM72S20-xxx/MR/1000V, xxx= 430 to 470 in steps of 5;
JAM60S20-xxx/MR/1000V, xxx= 355 to 390 in steps of 5;
JAM78S30-xxx/MR/1000V, xxx= 580 to 605 in steps of 5;
JAM72S30-xxx/MR/1000V, xxx=510 to 555 in steps of 5;
JAM66S30-xxx/MR/1000V, xxx=470 to 505 in steps of 5;
JAM60S30-xxx/MR/1000V, xxx=435 to 460 in steps of 5;
JAM54S30-xxx/MR/1000V, xxx= 390 to 425 in steps of 5;
JAM60S21-xxx/MR/1000V, xxx= 355 to 390 in steps of 5;
JAM50S40-xxx/MR/1000V, xxx= 490 to 500 in steps of 5;
JAM72S20-xxx/MB/1000V, xxx= 450 to 465 in steps of 5;
JAM60S20-xxx/MB/1000V, xxx= 375 to 390 in steps of 5;
JAM72S31-xxx/MR/1000V, xxx= 510 to 545 in steps of 5;
JAM66S31-xxx/MR/1000V, xxx= 470 to 500 in steps of 5;
JAM60S31-xxx/MR/1000V, xxx= 425 to 450 in steps of 5;
JAM54S31-xxx/MR/1000V, xxx= 385 to 405 in steps of 5;
JAM76S11-xxx/PR(B)/1000V, xxx= 395 to 415 in steps of 5;
JAM78S30-xxx/GR/1000V, xxx= 575 to 610 in steps of 5;
JAM72S30-xxx/GR/1000V, xxx= 535 to 560 in steps of 5;
JAM66S30-xxx/GR/1000V, xxx= 500 to 510 in steps of 5;
JAM60S30-xxx/GR/1000V, xxx= 445 to 470 in steps of 5;
JAM54S30-xxx/GR/1000V, xxx= 400 to 420 in steps of 5;
JAM78S31-xxx/GR/1000V, xxx= 570 to 590 in steps of 5;
JAM72S31-xxx/GR/1000V, xxx= 525 to 545 in steps of 5;
JAM66S31-xxx/GR/1000V, xxx= 480 to 500 in steps of 5;
JAM60S31-xxx/GR/1000V, xxx= 430 to 450 in steps of 5;
JAM54S31-xxx/GR/1000V, xxx= 395 to 415 in steps of 5;
JAM72S17-xxx/GR/1000V, xxx= 385 to 400 in steps of 5;
JAM72S40-xxx/GR/1000V, xxx= 540 to 575 in steps of 5;
JAM66S40-xxx/GR/1000V, xxx= 495 to 525 in steps of 5;
JAM60S40-xxx/GR/1000V, xxx= 450 to 480 in steps of 5;
JAM54S40-xxx/GR/1000V, xxx= 405 to 430 in steps of 5;
JAM72S41-xxx/GR/1000V, xxx= 540 to 570 in steps of 5;
JAM66S41-xxx/GR/1000V, xxx= 495 to 525 in steps of 5;
JAM60S41-xxx/GR/1000V, xxx= 450 to 475 in steps of 5;
JAM54S41-xxx/GR/1000V, xxx= 405 to 430 in steps of 5;
JAM66S35-xxx/MR/1000V, xxx= 650 to 670 in steps of 5;
JAM60S35-xxx/MR/1000V, xxx= 590 to 610 in steps of 5;
JAM72S30-xxx/LR/1000V, xxx= 555 to 580 in steps of 5;

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JAM54S30-xxx/LR/1000V, xxx= 415 to 435 in steps of 5;
JAM54S31-xxx/LR/1000V, xxx= 415 to 420 in steps of 5;

1000 V DC or 1500 V DC Maximum System Voltage,
Single Glass Modules:

JAM72S01-xxx/SC, xxx= 320 to 365 in steps of 5;
JAM60S01-xxx/SC, xxx= 265 to 305 in steps of 5;
JAM60S01-xxx/PR, xxx= 285 to 325 in steps of 5;
JAM72S01-xxx/MR, xxx= 365 to 385 in steps of 5;
JAM60S01-xxx/MR, xxx= 305 to 320 in steps of 5;
JAM72S03-xxx/PR, xxx= 360 to 395 in steps of 5;
JAM60S03-xxx/PR, xxx= 300 to 330 in steps of 5;
JAM72S09-xxx/PR, xxx= 370 to 405 in steps of 5;
JAM60S09-xxx/PR, xxx= 310 to 335 in steps of 5;
JAM72S10-xxx/PR, xxx= 380 to 410 in steps of 5;
JAM60S10-xxx/PR, xxx= 315 to 345 in steps of 5;
JAM72S10-xxx/MR, xxx= 390 to 430 in steps of 5;
JAM60S10-xxx/MR, xxx= 325 to 355 in steps of 5;
JAM60S10-xxx/MR-L, xxx= 325 to 355 in steps of 5;
JAM78S10-xxx/MR, xxx= 435 to 465 in steps of 5;
JAM66S10-xxx/MR, xxx= 345 to 390 in steps of 5;
JAM72S09-xxx/BP, xxx= 375 to 385 in steps of 5;
JAM60S09-xxx/BP, xxx= 315 to 320 in steps of 5;
JAM72S10-xxx/BP, xxx= 385 to 400 in steps of 5;
JAM60S10-xxx/BP, xxx= 320 to 330 in steps of 5;
JAM72S02-xxx/PR, xxx= 345 to 390 in steps of 5;
JAM60S02-xxx/PR, xxx= 285 to 325 in steps of 5;
JAM72S02-xxx/SC, xxx= 320 to 365 in steps of 5;
JAM60S02-xxx/SC, xxx= 265 to 305 in steps of 5;
JAM72S02-xxx/MR, xxx= 365 to 385 in steps of 5;
JAM60S02-xxx/MR, xxx= 305 to 320 in steps of 5;
JAM72S08-xxx/PR, xxx= 360 to 395 in steps of 5;
JAM60S08-xxx/PR, xxx= 300 to 330 in steps of 5;
JAM72S12-xxx/PR, xxx= 365 to 385 in steps of 5;
JAM60S12-xxx/PR, xxx= 305 to 330 in steps of 5;
JAM72S17-xxx/PR, xxx= 380 to 390 in steps of 5;
JAM60S17-xxx/PR, xxx= 315 to 325 in steps of 5;
JAM72S17-xxx/MR, xxx= 390 to 430 in steps of 5;
JAM60S17-xxx/MR, xxx= 315 to 355 in steps of 5;
JAM72S10-xxx/MB, xxx= 395 to 415 in steps of 5;
JAM60S10-xxx/MB, xxx= 330 to 345 in steps of 5;
JAM72S20-xxx/MR, xxx= 430 to 470 in steps of 5;
JAM60S20-xxx/MR, xxx= 355 to 390 in steps of 5;
JAM78S10-xxx/MR-J, xxx= 435 to 465 in steps of 5;
JAM78S30-xxx/MR, xxx= 580 to 605 in steps of 5;
JAM72S30-xxx/MR, xxx= 510 to 555 in steps of 5;
JAM66S30-xxx/MR, xxx= 470 to 505 in steps of 5;
JAM60S30-xxx/MR, xxx= 435 to 460 in steps of 5;
JAM54S30-xxx/MR, xxx= 390 to 425 in steps of 5;
JAM60S21-xxx/MR, xxx= 355 to 390 in steps of 5;
JAM50S40-xxx/MR, xxx= 490 to 500 in steps of 5;
JAM72S20-xxx/MB, xxx= 450 to 465 in steps of 5;
JAM60S20-xxx/MB, xxx= 375 to 390 in steps of 5;
JAM68S11-xxx/PR, xxx= 355 to 365 in steps of 5;
JAM68S11-xxx/PR(B), xxx= 345 to 365 in steps of 5;
JAM72S31-xxx/MR, xxx= 510 to 545 in steps of 5;
JAM66S31-xxx/MR, xxx= 470 to 500 in steps of 5;
JAM60S31-xxx/MR, xxx= 425 to 450 in steps of 5;
JAM54S31-xxx/MR, xxx= 385 to 405 in steps of 5;
JAM76S11-xxx/PR(B), xxx= 395 to 415 in steps of 5;
JAM78S30-xxx/GR, xxx= 575 to 610 in steps of 5;
JAM72S30-xxx/GR, xxx= 535 to 560 in steps of 5;
JAM66S30-xxx/GR, xxx= 500 to 510 in steps of 5;
JAM60S30-xxx/GR, xxx= 445 to 470 in steps of 5;
JAM54S30-xxx/GR, xxx= 400 to 420 in steps of 5;
JAM78S31-xxx/GR, xxx= 570 to 590 in steps of 5;
JAM72S31-xxx/GR, xxx= 525 to 545 in steps of 5;
JAM66S31-xxx/GR, xxx= 480 to 500 in steps of 5;
JAM60S31-xxx/GR, xxx= 435 to 450 in steps of 5;
JAM54S31-xxx/GR, xxx= 395 to 415 in steps of 5;

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JAM72S17-xxx/GR, xxx= 385 to 400 in steps of 5;
JAM72S40-xxx/GR, xxx= 540 to 575 in steps of 5;
JAM66S40-xxx/GR, xxx= 495 to 525 in steps of 5;
JAM60S40-xxx/GR, xxx= 450 to 480 in steps of 5;
JAM54S40-xxx/GR, xxx= 405 to 430 in steps of 5;
JAM72S41-xxx/GR, xxx= 540 to 570 in steps of 5;
JAM66S41-xxx/GR, xxx= 495 to 525 in steps of 5;
JAM60S41-xxx/GR, xxx= 450 to 475 in steps of 5;
JAM54S41-xxx/GR, xxx= 405 to 430 in steps of 5;
JAM66S35-xxx/MR, xxx= 650 to 670 in steps of 5;
JAM60S35-xxx/MR, xxx= 590 to 610 in steps of 5;
JAM72S30-xxx/LR, xxx= 555 to 580 in steps of 5;
JAM54S30-xxx/LR, xxx= 415 to 435 in steps of 5;
JAM54S31-xxx/LR, xxx= 415 to 420 in steps of 5;

1500 V DC Maximum System Voltage, Single Glass Modules:

JAM6(K)-72-xxx/PR/1500V, xxx= 345 to 370 in steps of 5;
JAM6(K)-60-xxx/PR/1500V, xxx= 285 to 310 in steps of 5;
JAM6(K)-72-xxx/4BB/1500V, xxx= 320 to 345 in steps of 5;
JAM6(K)-60-xxx/4BB/1500V, xxx= 265 to 285 in steps of 5;
JAM72S01-xxx/SC/1500V, xxx= 320 to 365 in steps of 5;
JAM60S01-xxx/SC/1500V, xxx= 265 to 305 in steps of 5;
JAM72S01-xxx/PR, xxx= 345 to 390 in steps of 5;
JAM60S01-xxx/PR/1500V, xxx= 285 to 325 in steps of 5;
JAM72S01-xxx/MR/1500V, xxx= 365 to 385 in steps of 5;
JAM60S01-xxx/MR/1500V, xxx= 305 to 320 in steps of 5;
JAM72S03-xxx/PR/1500V, xxx= 360 to 395 in steps of 5;
JAM60S03-xxx/PR/1500V, xxx= 300 to 330 in steps of 5;
JAM72S09-xxx/PR/1500V, xxx= 370 to 405 in steps of 5;
JAM60S09-xxx/PR/1500V, xxx= 310 to 335 in steps of 5;
JAM72S10-xxx/PR/1500V, xxx= 380 to 410 in steps of 5;
JAM60S10-xxx/PR/1500V, xxx= 315 to 345 in steps of 5;
JAM72S10-xxx/MR/1500V, xxx= 390 to 430 in steps of 5;
JAM60S10-xxx/MR/1500V, xxx= 325 to 355 in steps of 5;
JAM60S10-xxx/MR-L/1500V, xxx= 325 to 355 in steps of 5;
JAM78S10-xxx/MR/1500V, xxx= 435 to 465 in steps of 5;
JAM66S10-xxx/MR/1500V, xxx= 345 to 390 in steps of 5;
JAM72S09-xxx/BP/1500V, xxx= 375 to 385 in steps of 5;
JAM60S09-xxx/BP/1500V, xxx= 315 to 320 in steps of 5;
JAM72S10-xxx/BP/1500V, xxx= 385 to 400 in steps of 5;
JAM60S10-xxx/BP/1500V, xxx= 320 to 330 in steps of 5;
JAM72S02-xxx/PR/1500V, xxx= 345 to 390 in steps of 5;
JAM60S02-xxx/PR/1500V, xxx= 285 to 325 in steps of 5;
JAM72S02-xxx/SC/1500V, xxx= 320 to 365 in steps of 5;
JAM60S02-xxx/SC/1500V, xxx= 265 to 305 in steps of 5;
JAM72S02-xxx/MR/1500V, xxx= 365 to 385 in steps of 5;
JAM60S02-xxx/MR/1500V, xxx= 305 to 320 in steps of 5;
JAM72S08-xxx/PR/1500V, xxx= 360 to 395 in steps of 5;
JAM60S08-xxx/PR/1500V, xxx= 300 to 330 in steps of 5;
JAM72S12-xxx/PR/1500V, xxx= 365 to 385 in steps of 5;
JAM60S12-xxx/PR/1500V, xxx= 305 to 330 in steps of 5;
JAM72S17-xxx/PR/1500V, xxx= 380 to 390 in steps of 5;
JAM60S17-xxx/PR/1500V, xxx= 315 to 325 in steps of 5;
JAM72S17-xxx/MR/1500V, xxx= 390 to 430 in steps of 5;
JAM60S17-xxx/MR/1500V, xxx= 315 to 355 in steps of 5;
JAM72S10-xxx/MB/1500V, xxx= 395 to 415 in steps of 5;
JAM60S10-xxx/MB/1500V, xxx= 330 to 345 in steps of 5;
JAM72S20-xxx/MR/1500V, xxx= 430 to 470 in steps of 5;
JAM60S20-xxx/MR/1500V, xxx= 355 to 390 in steps of 5;
JAM78S30-xxx/MR/1500V, xxx= 580 to 605 in steps of 5;
JAM72S30-xxx/MR/1500V, xxx= 510 to 555 in steps of 5;
JAM66S30-xxx/MR/1500V, xxx= 470 to 505 in steps of 5;
JAM60S30-xxx/MR/1500V, xxx= 435 to 460 in steps of 5;
JAM54S30-xxx/MR/1500V, xxx= 390 to 425 in steps of 5;
JAM60S21-xxx/MR/1500V, xxx= 355 to 390 in steps of 5;
JAM50S40-xxx/MR/1500V, xxx= 490 to 500 in steps of 5;
JAM72S20-xxx/MB/1500V, xxx= 450 to 465 in steps of 5;
JAM60S20-xxx/MB/1500V, xxx= 375 to 390 in steps of 5;
JAM72S31-xxx/MR/1500V, xxx= 510 to 545 in steps of 5;
JAM66S31-xxx/MR/1500V, xxx= 470 to 500 in steps of 5;

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JAM60S31-xxx/MR/1500V, xxx= 425 to 450 in steps of 5;
JAM54S31-xxx/MR/1500V, xxx= 385 to 405 in steps of 5;
JAM76S11-xxx/PR(B)/1500V, xxx= 395 to 415 in steps of 5;
JAM78S30-xxx/GR/1500V, xxx= 575 to 610 in steps of 5;
JAM72S30-xxx/GR/1500V, xxx= 535 to 560 in steps of 5;
JAM66S30-xxx/GR/1500V, xxx= 500 to 510 in steps of 5;
JAM60S30-xxx/GR/1500V, xxx= 445 to 470 in steps of 5;
JAM54S30-xxx/GR/1500V, xxx= 400 to 420 in steps of 5;
JAM78S31-xxx/GR/1500V, xxx= 570 to 590 in steps of 5;
JAM72S31-xxx/GR/1500V, xxx= 525 to 545 in steps of 5;
JAM66S31-xxx/GR/1500V, xxx= 480 to 500 in steps of 5;
JAM60S31-xxx/GR/1500V, xxx= 435 to 450 in steps of 5;
JAM54S31-xxx/GR/1500V, xxx= 395 to 415 in steps of 5;
JAM72S17-xxx/GR/1500V, xxx= 385 to 400 in steps of 5;
JAM72S40-xxx/GR/1500V, xxx= 540 to 575 in steps of 5;
JAM66S40-xxx/GR/1500V, xxx= 495 to 525 in steps of 5;
JAM60S40-xxx/GR/1500V, xxx= 450 to 480 in steps of 5;
JAM54S40-xxx/GR/1500V, xxx= 405 to 430 in steps of 5;
JAM72S41-xxx/GR/1500V, xxx= 540 to 570 in steps of 5;
JAM66S41-xxx/GR/1500V, xxx= 495 to 525 in steps of 5;
JAM60S41-xxx/GR/1500V, xxx= 450 to 475 in steps of 5;
JAM54S41-xxx/GR/1500V, xxx= 405 to 430 in steps of 5;
JAM66S35-xxx/MR/1500V, xxx= 650 to 670 in steps of 5;
JAM60S35-xxx/MR/1500V, xxx= 590 to 610 in steps of 5;
JAM72S30-xxx/LR/1500V, xxx= 555 to 580 in steps of 5;
JAM54S30-xxx/LR/1500V, xxx= 415 to 435 in steps of 5;
JAM54S31-xxx/LR/1500V, xxx= 415 to 420 in steps of 5;
xxx is standing for rated output power at STC

Parameters:

Construction:	Framed or Frameless, with Junction box, Cable and Connectors.
Test Laboratory:	Yangzhou Opto-Electrical Products Testing Institute No. 10 West Kaifa Road, Yangzhou 225009 Jiangsu, P. R. China
Safety Class:	Class II
Maximum System Voltage:	1500 V DC or 1000 V DC
Fire Safety Class:	Class C according to UL790.
Production Facility(ies):	079395, 095903, 090968, 108746, 072092, 109998, 112017, 113943, 114922, 001783, 004170, 113691, 117043, 119123, 120210, 117684, 114994, 120736, 115500, 120016, 108093, 121678.

Tested according to:

IEC 61215-1:2016
IEC 61215-1-1:2016
IEC 61215-2:2016
IEC 61730-1:2016
IEC 61730-2:2016
EN IEC 61730-1:2018
EN IEC 61730-1:2018/AC:2018-06
EN IEC 61730-2:2018
EN IEC 61730-2:2018/AC:2018-06



Product Service

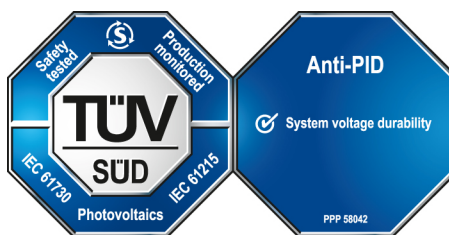
CERTIFICATE

No. Z2 072092 0300 Rev. 23

Holder of Certificate: **Shanghai JA Solar Technology Co., Ltd.**

No. 118, Lane 3111
West Huancheng Road
Fengxian District
201401 Shanghai
PEOPLE'S REPUBLIC OF CHINA

Certification Mark:



Product:

Crystalline Silicon Terrestrial Photovoltaic (PV) Modules
Mono-Crystalline Silicon Photovoltaic Module

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the testing and certification regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.: 704061900211-23

Valid until: 2028-04-28

Date, 2023-06-02

(Zhulin Zhang)

CERTIFICATE

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Model(s):

Maximum System Voltage: 1000 V DC

JAM6(K)-72-xxx/PR, xxx=345 to 370 in steps of 5
JAM6(K)-60-xxx/PR, xxx=285 to 310 in steps of 5
JAM6(K)-72-xxx/4BB, xxx=320 to 345 in steps of 5
JAM6(K)-60-xxx/4BB, xxx=265 to 285 in steps of 5
JAM72S01-xxx/SC/1000V, xxx=320 to 365 in steps of 5
JAM60S01-xxx/SC/1000V, xxx=265 to 305 in steps of 5
JAM72S01-xxx/PR/1000V, xxx=345 to 390 in steps of 5
JAM60S01-xxx/PR/1000V, xxx=285 to 325 in steps of 5
JAM72S03-xxx/PR/1000V, xxx=360 to 395 in steps of 5
JAM60S03-xxx/PR/1000V, xxx=300 to 330 in steps of 5
JAM72S09-xxx/PR/1000V, xxx=370 to 405 in steps of 5
JAM60S09-xxx/PR/1000V, xxx=310 to 335 in steps of 5
JAM72S09-xxx/BP/1000V, xxx=375 to 385 in steps of 5
JAM60S09-xxx/BP/1000V, xxx=315 to 320 in steps of 5
JAM72S10-xxx/PR/1000V, xxx=380 to 410 in steps of 5
JAM60S10-xxx/PR/1000V, xxx=315 to 345 in steps of 5
JAM72S10-xxx/BP/1000V, xxx=385 to 400 in steps of 5
JAM60S10-xxx/BP/1000V, xxx=320 to 330 in steps of 5
JAM72S10-xxx/MR/1000V, xxx=390 to 430 in steps of 5
JAM60S10-xxx/MR/1000V, xxx=325 to 355 in steps of 5
JAM78S10-xxx/MR/1000V, xxx=435 to 465 in steps of 5
JAM66S10-xxx/MR/1000V, xxx=345 to 390 in steps of 5
JAM72S17-xxx/MR/1000V, xxx=390 to 430 in steps of 5
JAM60S17-xxx/MR/1000V, xxx=315 to 355 in steps of 5
JAM72S10-xxx/MB/1000V, xxx=395 to 415 in steps of 5
JAM60S10-xxx/MB/1000V, xxx=330 to 345 in steps of 5
JAM72S20-xxx/MR/1000V, xxx=430 to 470 in steps of 5
JAM60S20-xxx/MR/1000V, xxx=355 to 390 in steps of 5
JAM72S30-xxx/MR/1000V, xxx=510 to 555 in steps of 5
JAM66S30-xxx/MR/1000V, xxx=470 to 505 in steps of 5
JAM60S30-xxx/MR/1000V, xxx=435 to 460 in steps of 5
JAM60S21-xxx/MR/1000V, xxx=355 to 390 in steps of 5
JAM54S30-xxx/MR/1000V, xxx=390 to 425 in steps of 5
JAM72S20-xxx/MB/1000V, xxx=450 to 465 in steps of 5
JAM60S20-xxx/MB/1000V, xxx=375 to 390 in steps of 5
JAM76S11-xxxPR(B)/1000V, xxx=395 to 415 in steps of 5
JAM78S30-xxx/GR/1000V, xxx=575 to 610 in steps of 5
JAM72S30-xxx/GR/1000V, xxx=535 to 560 in steps of 5
JAM66S30-xxx/GR/1000V, xxx=500 to 510 in steps of 5
JAM60S30-xxx/GR/1000V, xxx=445 to 465 in steps of 5
JAM54S30-xxx/GR/1000V, xxx=400 to 420 in steps of 5
JAM78S31-xxx/GR/1000V, xxx=570 to 590 in steps of 5
JAM72S31-xxx/GR/1000V, xxx=525 to 545 in steps of 5
JAM66S31-xxx/GR/1000V, xxx=480 to 500 in steps of 5
JAM60S31-xxx/GR/1000V, xxx=435 to 450 in steps of 5
JAM54S31-xxx/GR/1000V, xxx=395 to 415 in steps of 5
JAM72S31-xxx/MR/1000V, xxx=510 to 545 in steps of 5
JAM66S31-xxx/MR/1000V, xxx=470 to 500 in steps of 5
JAM60S31-xxx/MR/1000V, xxx=425 to 450 in steps of 5
JAM54S31-xxx/MR/1000V, xxx=385 to 405 in steps of 5
JAM78S30-xxx/MR/1000V, xxx=580 to 605 in steps of 5
JAM72S17-xxx/GR/1000V, xxx=385 to 400 in steps of 5
JAM72S40-xxx/GR/1000V, xxx=540 to 575 in steps of 5
JAM66S40-xxx/GR/1000V, xxx=495 to 525 in steps of 5
JAM60S40-xxx/GR/1000V, xxx=450 to 480 in steps of 5
JAM54S40-xxx/GR/1000V, xxx=405 to 430 in steps of 5
JAM72S41-xxx/GR/1000V, xxx=540 to 570 in steps of 5
JAM66S41-xxx/GR/1000V, xxx=495 to 525 in steps of 5
JAM60S41-xxx/GR/1000V, xxx=450 to 475 in steps of 5
JAM54S41-xxx/GR/1000V, xxx=405 to 430 in steps of 5
JAM66S35-xxx/MR/1000V, xxx= 650 to 670 in steps of 5

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JAM60S35-xxx/MR/1000V, xxx= 590 to 610 in steps of 5
JAM72S30-xxx/LR/1000V,xxx=555 to 580 in steps of 5
JAM54S30-XXX/LR/1000Vxxx=415 to435in steps of 5
JAM54S31-XXX/LR/1000V.xxx=415 to 420 in steps of 5

Maximum System Voltage: 1500 V DC

JAM72D00-xxx/BP/1500V, xxx=330 to 385 in steps of 5
JAM72D00-xxx/BP, xxx=330 to 385 in steps of 5
JAM60D00-xxx/BP/1500V, xxx=275 to 320 in steps of 5
JAM60D00-xxx/BP, xxx=275 to 320 in steps of 5
JAM72D00-xxx/PR/1500V, xxx=340 to 385 in steps of 5
JAM72D00-xxx/PR, xxx=340 to 385 in steps of 5
JAM60D00-xxx/PR/1500V, xxx=285 to 320 in steps of 5
JAM60D00-xxx/PR, xxx=285 to 320 in steps of 5
JAM72D09-xxx/BP/1500V, xxx=360 to 400 in steps of 5
JAM72D09-xxx/BP, xxx=360 to 400 in steps of 5
JAM60D09-xxx/BP/1500V, xxx=300 to 340 in steps of 5
JAM60D09-xxx/BP, xxx=300 to 340 in steps of 5
JAM72D10-xxx/MB/1500V, xxx=385 to 430 in steps of 5
JAM72D10-xxx/MB, xxx=385 to 430 in steps of 5
JAM60D10-xxx/MB/1500V, xxx=320 to 355 in steps of 5
JAM60D10-xxx/MB, xxx=320 to 355 in steps of 5
JAM72D10-xxx/BP/1500V, xxx=385 to 415 in steps of 5
JAM72D10-xxx/BP, xxx=385 to 415 in steps of 5
JAM60D10-xxx/BP/1500V, xxx=320 to 345 in steps of 5
JAM60D10-xxx/BP, xxx=320 to 345 in steps of 5
JAM66D10-xxx/MB, xxx=360 to 380 in steps of 5
JAM66D10-xxx/MB/1500V, xxx=360 to 380 in steps of 5
JAM78D10-xxx/MB, xxx=435 to 455 in steps of 5
JAM78D10-xxx/MB/1500V, xxx=435 to 455 in steps of 5
JAM72D20-xxx/MB, xxx=430 to 465 in steps of 5
JAM72D20-xxx/MB/1500V, xxx=430 to 465 in steps of 5
JAM60D20-xxx/MB, xxx=355 to 385 in steps of 5
JAM60D20-xxx/MB/1500V, xxx=355 to 385 in steps of 5
JAM6(K)-72-xxx/PR/1500V, xxx=345 to 370 in steps of 5
JAM6(K)-60-xxx/PR/1500V, xxx=285 to 310 in steps of 5
JAM6(K)-72-xxx/4BB/1500V, xxx=320 to 345 in steps of 5
JAM6(K)-60-xxx/4BB/1500V, xxx=265 to 285 in steps of 5
JAM72S01-xxx/SC/1500V, xxx=320 to 365 in steps of 5
JAM60S01-xxx/SC/1500V, xxx=265 to 305 in steps of 5
JAM72S01-xxx/PR, xxx=345 to 390 in steps of 5
JAM60S01-xxx/PR/1500V, xxx=285 to 325 in steps of 5
JAM72S03-xxx/PR/1500V, xxx=360 to 395 in steps of 5
JAM60S03-xxx/PR/1500V, xxx=300 to 330 in steps of 5
JAM72S09-xxx/PR/1500V, xxx=370 to 405 in steps of 5
JAM60S09-xxx/PR/1500V, xxx=310 to 335 in steps of 5
JAM72S10-xxx/PR/1500V, xxx=380 to 410 in steps of 5
JAM60S10-xxx/PR/1500V, xxx=315 to 345 in steps of 5
JAM78S10-xxx/MR/1500V, xxx=435 to 465 in steps of 5
JAM66S10-xxx/MR/1500V, xxx=345 to 390 in steps of 5
JAM72S09-xxx/BP/1500V, xxx=375 to 385 in steps of 5
JAM60S09-xxx/BP/1500V, xxx=315 to 320 in steps of 5
JAM72S10-xxx/BP/1500V, xxx=385 to 400 in steps of 5
JAM60S10-xxx/BP/1500V, xxx=320 to 330 in steps of 5
JAM72S10-xxx/MB/1500V, xxx=395 to 415 in steps of 5
JAM60S10-xxx/MB/1500V, xxx=330 to 345 in steps of 5
JAM72S20-xxx/MR/1500V, xxx=430 to 470 in steps of 5
JAM60S20-xxx/MR/1500V, xxx=355 to 390 in steps of 5
JAM72S30-xxx/MR/1500V, xxx=510 to 555 in steps of 5
JAM66S30-xxx/MR/1500V, xxx=470 to 505 in steps of 5
JAM60S30-xxx/MR/1500V, xxx=435 to 460 in steps of 5

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JAM54S30-xxx/MR/1500V, xxx=390 to 425 in steps of 5
JAM60S21-xxx/MR/1500V, xxx=355 to 390 in steps of 5
JAM72D30-xxx/MB, xxx=505 to 555 in steps of 5
JAM72D30-xxx/MB/1500V, xxx=505 to 555 in steps of 5
JAM66D30-xxx/MB, xxx=465 to 505 in steps of 5
JAM66D30-xxx/MB/1500V, xxx=465 to 505 in steps of 5
JAM60D30-xxx/MB, xxx=435 to 460 in steps of 5
JAM60D30-xxx/MB/1500V, xxx=435 to 460 in steps of 5
JAM54D30-xxx/MB, xxx=390 to 415 in steps of 5
JAM54D30-xxx/MB/1500V, xxx=390 to 415 in steps of 5
JAM54D31-xxx/MB, xxx=395 to 400 in steps of 5
JAM54D31-xxx/MB/1500V, xxx=395 to 400 in steps of 5
JAM72S20-xxx/MB/1500V, xxx=450 to 465 in steps of 5
JAM60S20-xxx/MB/1500V, xxx=375 to 390 in steps of 5
JAM76S11-xxxPR(B)/1500V, xxx=395 to 415 in steps of 5
JAM78D30-xxx/GB, JAM78D30-xxx/GB/1500V,
xxx=585 to 610 in steps of 5
JAM72D30-xxx/GB, JAM72D30-xxx/GB/1500V,
xxx=540 to 560 in steps of 5
JAM66D30-xxx/GB, JAM66D30-xxx/GB/1500V,
xxx=495 to 510 in steps of 5
JAM60D30-xxx/GB, JAM60D30-xxx/GB/1500V,
xxx=450 to 465 in steps of 5
JAM54D30-xxx/GB, JAM54D30-xxx/GB/1500V,
xxx=405 to 420 in steps of 5
JAM54D31-xxx/GB, JAM54D31-xxx/GB/1500V,
xxx=410 to 420 in steps of 5
JAM78S30-xxx/GR/1500V, xxx=575 to 610 in steps of 5
JAM72S30-xxx/GR/1500V, xxx=535 to 560 in steps of 5
JAM66S30-xxx/GR/1500V, xxx=500 to 510 in steps of 5
JAM60S30-xxx/GR/1500V, xxx=445 to 465 in steps of 5
JAM54S30-xxx/GR/1500V, xxx=400 to 420 in steps of 5
JAM78S31-xxx/GR/1500V, xxx=570 to 590 in steps of 5
JAM72S31-xxx/GR/1500V, xxx=525 to 545 in steps of 5
JAM66S31-xxx/GR/1500V, xxx=480 to 500 in steps of 5
JAM60S31-xxx/GR/1500V, xxx=435 to 450 in steps of 5
JAM54S31-xxx/GR/1500V, xxx=395 to 415 in steps of 5
JAM72S10-xxx/MR/1500V, xxx=390 to 430 in steps of 5
JAM60S10-xxx/MR/1500V, xxx=325 to 355 in steps of 5
JAM72S17-xxx/MR/1500V, xxx=390 to 430 in steps of 5
JAM60S17-xxx/MR/1500V, xxx=315 to 355 in steps of 5
JAM72S31-xxx/MR/1500V, xxx=510 to 545 in steps of 5
JAM66S31-xxx/MR/1500V, xxx=470 to 500 in steps of 5
JAM60S31-xxx/MR/1500V, xxx=425 to 450 in steps of 5
JAM54S31-xxx/MR/1500V, xxx=385 to 405 in steps of 5
JAM78S30-xxx/MR/1500V, xxx=580 to 605 in steps of 5
JAM72S17-xxx/GR/1500V, xxx=385 to 400 in steps of 5
JAM78D30-xxx/MB, JAM78D30-xxx/MB/1500V,
xxx=580 to 605 in steps of 5
JAM72D30-xxx/HB, JAM72D30-xxx/HB/1500V,
xxx=530 to 560 in steps of 5
JAM78D40-xxx/MB, xxx=580 to 630 in steps of 5
JAM78D40-xxx/MB/1500V, xxx=580 to 630 in steps of 5
JAM72D40-xxx/MB, xxx=540 to 580 in steps of 5
JAM72D40-xxx/MB/1500V, xxx=540 to 580 in steps of 5
JAM66D40-xxx/MB, xxx=500 to 530 in steps of 5
JAM66D40-xxx/MB/1500V, xxx=500 to 530 in steps of 5
JAM60D40-xxx/MB, xxx=455 to 480 in steps of 5
JAM60D40-xxx/MB/1500V, xxx=455 to 480 in steps of 5
JAM54D40-xxx/MB, xxx=405 to 435 in steps of 5
JAM54D40-xxx/MB/1500V, xxx=405 to 435 in steps of 5
JAM78D40-xxx/GB, xxx= 580 to 635 in steps of 5

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JAM78D40-xxx/GB/1500V, xxx= 580 to 635 in steps of 5
 JAM72D40-xxx/GB, xxx= 540 to 585 in steps of 5
 JAM72D40-xxx/GB/1500V, xxx= 540 to 585 in steps of 5
 JAM66D40-xxx/GB, xxx= 500 to 535 in steps of 5
 JAM66D40-xxx/GB/1500V, xxx= 500 to 535 in steps of 5
 JAM60D40-xxx/GB, xxx= 455 to 485 in steps of 5
 JAM60D40-xxx/GB/1500V, xxx= 455 to 485 in steps of 5
 JAM54D40-xxx/GB, xxx= 405 to 440 in steps of 5
 JAM54D40-xxx/GB/1500V, xxx= 405 to 440 in steps of 5
 JAM54D41-xxx/GB, xxx= 415 to 435 in steps of 5
 JAM54D41-xxx/GB/1500V, xxx= 415 to 435 in steps of 5
 JAM72S40-xxx/GR/1500V, xxx=540 to 575 in steps of 5
 JAM66S40-xxx/GR/1500V, xxx=495 to 525 in steps of 5
 JAM60S40-xxx/GR/1500V, xxx=450 to 480 in steps of 5
 JAM54S40-xxx/GR/1500V, xxx=405 to 430 in steps of 5
 JAM72S41-xxx/GR/1500V, xxx=540 to 570 in steps of 5
 JAM66S41-xxx/GR/1500V, xxx=495 to 525 in steps of 5
 JAM60S41-xxx/GR/1500V, xxx=450 to 475 in steps of 5
 JAM54S41-xxx/GR/1500V, xxx=405 to 430 in steps of 5
 JAM66D35-xxx/MB/1500V, JAM66D35-xxx/MB,
 xxx= 650 to 665 in steps of 5;
 JAM60D35-xxx/MB/1500V, JAM60D35-xxx/MB,
 xxx= 590 to 605 in steps of 5;
 JAM72D30-xxx /TB/1500V, JAM72D30-xxx /TB,
 xxx= 540 to 580 in steps of 5;
 JAM66S35-xxx/MR/1500V, xxx= 650 to 670 in steps of 5;
 JAM60S35-xxx/MR/1500V, xxx= 590 to 610 in steps of 5;
 JAM72D40-xxx/LB, xxx= 575 to 600 in steps of 5;
 JAM72D40-xxx/LB/1500V, xxx= 575 to 600 in steps of 5;
 JAM54D40-xxx/LB, xxx= 420 to 450 in steps of 5;
 JAM54D40-xxx/LB/1500V, xxx= 420 to 450 in steps of 5;
 JAM54D41-xxx/LB, xxx= 420 to 440 in steps of 5;
 JAM54D41-xxx/LB/1500V, xxx= 420 to 440 in steps of 5;
 JAM72D42-xxx/LB, xxx= 605 to 630 in steps of 5
 JAM72D42-xxx/LB/1500V, xxx= 605 to 630 in steps of 5
 JAM72D30-xxx/LB, xxx= 555 to 575 in steps of 5
 JAM72D30-xxx/LB/1500V, xxx= 555 to 575 in steps of 5
 JAM54D30-xxx/LB, xxx= 420 to 430 in steps of 5
 JAM54D30-xxx/LB/1500V, xxx= 420 to 430 in steps of 5

Maximum System Voltage: 1000 or 1500 V DC
 JAM72S01-xxx/SC, xxx=320 to 365 in steps of 5
 JAM60S01-xxx/SC, xxx=265 to 305 in steps of 5
 JAM60S01-xxx/PR, xxx=285 to 325 in steps of 5
 JAM72S03-xxx/PR, xxx=360 to 395 in steps of 5
 JAM60S03-xxx/PR, xxx=300 to 330 in steps of 5
 JAM72S09-xxx/PR, xxx=370 to 405 in steps of 5
 JAM60S09-xxx/PR, xxx=310 to 335 in steps of 5
 JAM72S10-xxx/PR, xxx=380 to 410 in steps of 5
 JAM60S10-xxx/PR, xxx=315 to 345 in steps of 5
 JAM72S10-xxx/MR, xxx=390 to 430 in steps of 5
 JAM60S10-xxx/MR, xxx=325 to 355 in steps of 5
 JAM78S10-xxx/MR, xxx=435 to 465 in steps of 5
 JAM66S10-xxx/MR, xxx=345 to 390 in steps of 5
 JAM72S09-xxx/BP, xxx=375 to 385 in steps of 5
 JAM60S09-xxx/BP, xxx=315 to 320 in steps of 5
 JAM72S10-xxx/BP, xxx=385 to 400 in steps of 5
 JAM60S10-xxx/BP, xxx=320 to 330 in steps of 5
 JAM72S10-xxx/MB, xxx=395 to 415 in steps of 5
 JAM60S10-xxx/MB, xxx=330 to 345 in steps of 5

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JAM72S20-xxx/MR, xxx=430 to 470 in steps of 5
 JAM60S20-xxx/MR, xxx=355 to 390 in steps of 5
 JAM78S10-xxx/MR-J, xxx=435 to 465 in steps of 5
 JAM72S30-xxx/MR, xxx=510 to 555 in steps of 5
 JAM66S30-xxx/MR, xxx=470 to 505 in steps of 5
 JAM60S30-xxx/MR, xxx=435 to 460 in steps of 5
 JAM60S21-xxx/MR, xxx=355 to 390 in steps of 5
 JAM54S30-xxx/MR, xxx=390 to 425 in steps of 5
 JAM68S11-xxx/PR(B), xxx=345 to 365 in steps of 5
 JAM72S20-xxx/MB, xxx=450 to 465 in steps of 5
 JAM60S20-xxx/MB, xxx=375 to 390 in steps of 5
 JAM76S11-xxxPR(B), xxx=395 to 415 in steps of 5
 JAM78S30-xxx/GR, xxx=575 to 610 in steps of 5
 JAM72S30-xxx/GR, xxx=535 to 560 in steps of 5
 JAM66S30-xxx/GR, xxx=500 to 510 in steps of 5
 JAM60S30-xxx/GR, xxx=445 to 465 in steps of 5
 JAM54S30-xxx/GR, xxx=400 to 420 in steps of 5
 JAM78S31-xxx/GR, xxx=570 to 590 in steps of 5
 JAM72S31-xxx/GR, xxx=525 to 545 in steps of 5
 JAM66S31-xxx/GR, xxx=480 to 500 in steps of 5
 JAM60S31-xxx/GR, xxx=435 to 450 in steps of 5
 JAM54S31-xxx/GR, xxx=395 to 415 in steps of 5
 JAM72S31-xxx/MR, xxx=510 to 545 in steps of 5
 JAM66S31-xxx/MR, xxx=470 to 500 in steps of 5
 JAM60S31-xxx/MR, xxx=425 to 450 in steps of 5
 JAM54S31-xxx/MR, xxx=385 to 405 in steps of 5
 JAM72S17-xxx/MR, xxx=390 to 430 in steps of 5
 JAM60S17-xxx/MR, xxx=315 to 355 in steps of 5
 JAM78S30-xxx/MR, xxx=580 to 605 in steps of 5
 JAM72S17-xxx/GR, xxx=385 to 400 in steps of 5
 JAM72S40-xxx/GR, xxx=540 to 575 in steps of 5
 JAM66S40-xxx/GR, xxx=495 to 525 in steps of 5
 JAM60S40-xxx/GR, xxx=450 to 480 in steps of 5
 JAM54S40-xxx/GR, xxx=405 to 430 in steps of 5
 JAM72S41-xxx/GR, xxx=540 to 570 in steps of 5
 JAM66S41-xxx/GR, xxx=495 to 525 in steps of 5
 JAM60S41-xxx/GR, xxx=450 to 475 in steps of 5
 JAM54S41-xxx/GR, xxx=405 to 430 in steps of 5
 JAM66S35-xxx/MR, xxx= 650 to 670 in steps of 5
 JAM60S35-xxx/MR, xxx= 590 to 610 in steps of 5
 JAM72S30-xxx/LR, xxx=555 to 580 in steps of 5
 JAM54S30-XXX/LR, xxx=415 to 435 in steps of 5
 JAM54S31-XXX/LR, xxx=415 to 420 in steps of 5
 xxx is standing for rated output power at STC



CERTIFICATE

No. Z2 072092 0300 Rev. 23

Parameters:

Construction:	Framed or Frameless, with Junction box, cable and Connectors.
Fire Safety Class:	Class C or Class A according to UL790.
Safety Class:	Class II
Maximum System Voltage:	1000 V DC or 1500V DC
PID Test Condition:	±1000 V DC, 96h, 60°C, 85% RH or 96h, 85°C, 85% RH ±1500 V DC, 96h, 85°C, 85% RH
PID testing method according to IEC TS 62804-1:2015	
Production Facility(ies):	072092, 079395, 117043, 095903, 108746, 109998, 112017, 113943, 114922, 001783, 004170, 113691, 090968, 119123, 120210, 117684, 114994, 120736, 115500, 120016, 108093

Tested according to:

IEC 61215-1(ed.1)
IEC 61215-1-1(ed.1)
IEC 61215-2(ed.1)
IEC 61730-1(ed.2)
IEC 61730-2(ed.2)
PPP 58042B:2015



Product Service

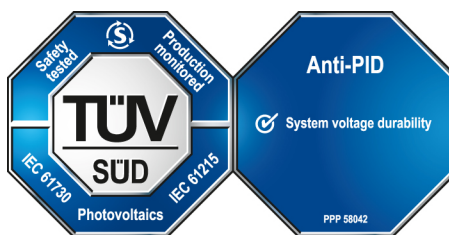
CERTIFICATE

No. Z2 072092 0300 Rev. 23

Holder of Certificate: **Shanghai JA Solar Technology Co., Ltd.**

No. 118, Lane 3111
West Huancheng Road
Fengxian District
201401 Shanghai
PEOPLE'S REPUBLIC OF CHINA

Certification Mark:



Product:

Crystalline Silicon Terrestrial Photovoltaic (PV) Modules
Mono-Crystalline Silicon Photovoltaic Module

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the testing and certification regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.: 704061900211-23

Valid until: 2028-04-28

Date, 2023-06-02

(Zhulin Zhang)

CERTIFICATE

No. Z2 072092 0300 Rev. 23

Model(s):

Maximum System Voltage: 1000 V DC

JAM6(K)-72-xxx/PR, xxx=345 to 370 in steps of 5
JAM6(K)-60-xxx/PR, xxx=285 to 310 in steps of 5
JAM6(K)-72-xxx/4BB, xxx=320 to 345 in steps of 5
JAM6(K)-60-xxx/4BB, xxx=265 to 285 in steps of 5
JAM72S01-xxx/SC/1000V, xxx=320 to 365 in steps of 5
JAM60S01-xxx/SC/1000V, xxx=265 to 305 in steps of 5
JAM72S01-xxx/PR/1000V, xxx=345 to 390 in steps of 5
JAM60S01-xxx/PR/1000V, xxx=285 to 325 in steps of 5
JAM72S03-xxx/PR/1000V, xxx=360 to 395 in steps of 5
JAM60S03-xxx/PR/1000V, xxx=300 to 330 in steps of 5
JAM72S09-xxx/PR/1000V, xxx=370 to 405 in steps of 5
JAM60S09-xxx/PR/1000V, xxx=310 to 335 in steps of 5
JAM72S09-xxx/BP/1000V, xxx=375 to 385 in steps of 5
JAM60S09-xxx/BP/1000V, xxx=315 to 320 in steps of 5
JAM72S10-xxx/PR/1000V, xxx=380 to 410 in steps of 5
JAM60S10-xxx/PR/1000V, xxx=315 to 345 in steps of 5
JAM72S10-xxx/BP/1000V, xxx=385 to 400 in steps of 5
JAM60S10-xxx/BP/1000V, xxx=320 to 330 in steps of 5
JAM72S10-xxx/MR/1000V, xxx=390 to 430 in steps of 5
JAM60S10-xxx/MR/1000V, xxx=325 to 355 in steps of 5
JAM78S10-xxx/MR/1000V, xxx=435 to 465 in steps of 5
JAM66S10-xxx/MR/1000V, xxx=345 to 390 in steps of 5
JAM72S17-xxx/MR/1000V, xxx=390 to 430 in steps of 5
JAM60S17-xxx/MR/1000V, xxx=315 to 355 in steps of 5
JAM72S10-xxx/MB/1000V, xxx=395 to 415 in steps of 5
JAM60S10-xxx/MB/1000V, xxx=330 to 345 in steps of 5
JAM72S20-xxx/MR/1000V, xxx=430 to 470 in steps of 5
JAM60S20-xxx/MR/1000V, xxx=355 to 390 in steps of 5
JAM72S30-xxx/MR/1000V, xxx=510 to 555 in steps of 5
JAM66S30-xxx/MR/1000V, xxx=470 to 505 in steps of 5
JAM60S30-xxx/MR/1000V, xxx=435 to 460 in steps of 5
JAM60S21-xxx/MR/1000V, xxx=355 to 390 in steps of 5
JAM54S30-xxx/MR/1000V, xxx=390 to 425 in steps of 5
JAM72S20-xxx/MB/1000V, xxx=450 to 465 in steps of 5
JAM60S20-xxx/MB/1000V, xxx=375 to 390 in steps of 5
JAM76S11-xxxPR(B)/1000V, xxx=395 to 415 in steps of 5
JAM78S30-xxx/GR/1000V, xxx=575 to 610 in steps of 5
JAM72S30-xxx/GR/1000V, xxx=535 to 560 in steps of 5
JAM66S30-xxx/GR/1000V, xxx=500 to 510 in steps of 5
JAM60S30-xxx/GR/1000V, xxx=445 to 465 in steps of 5
JAM54S30-xxx/GR/1000V, xxx=400 to 420 in steps of 5
JAM78S31-xxx/GR/1000V, xxx=570 to 590 in steps of 5
JAM72S31-xxx/GR/1000V, xxx=525 to 545 in steps of 5
JAM66S31-xxx/GR/1000V, xxx=480 to 500 in steps of 5
JAM60S31-xxx/GR/1000V, xxx=435 to 450 in steps of 5
JAM54S31-xxx/GR/1000V, xxx=395 to 415 in steps of 5
JAM72S31-xxx/MR/1000V, xxx=510 to 545 in steps of 5
JAM66S31-xxx/MR/1000V, xxx=470 to 500 in steps of 5
JAM60S31-xxx/MR/1000V, xxx=425 to 450 in steps of 5
JAM54S31-xxx/MR/1000V, xxx=385 to 405 in steps of 5
JAM78S30-xxx/MR/1000V, xxx=580 to 605 in steps of 5
JAM72S17-xxx/GR/1000V, xxx=385 to 400 in steps of 5
JAM72S40-xxx/GR/1000V, xxx=540 to 575 in steps of 5
JAM66S40-xxx/GR/1000V, xxx=495 to 525 in steps of 5
JAM60S40-xxx/GR/1000V, xxx=450 to 480 in steps of 5
JAM54S40-xxx/GR/1000V, xxx=405 to 430 in steps of 5
JAM72S41-xxx/GR/1000V, xxx=540 to 570 in steps of 5
JAM66S41-xxx/GR/1000V, xxx=495 to 525 in steps of 5
JAM60S41-xxx/GR/1000V, xxx=450 to 475 in steps of 5
JAM54S41-xxx/GR/1000V, xxx=405 to 430 in steps of 5
JAM66S35-xxx/MR/1000V, xxx= 650 to 670 in steps of 5

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JAM60S35-xxx/MR/1000V, xxx= 590 to 610 in steps of 5
JAM72S30-xxx/LR/1000V,xxx=555 to 580 in steps of 5
JAM54S30-XXX/LR/1000Vxxx=415 to435in steps of 5
JAM54S31-XXX/LR/1000V.xxx=415 to 420 in steps of 5

Maximum System Voltage: 1500 V DC

JAM72D00-xxx/BP/1500V, xxx=330 to 385 in steps of 5
JAM72D00-xxx/BP, xxx=330 to 385 in steps of 5
JAM60D00-xxx/BP/1500V, xxx=275 to 320 in steps of 5
JAM60D00-xxx/BP, xxx=275 to 320 in steps of 5
JAM72D00-xxx/PR/1500V, xxx=340 to 385 in steps of 5
JAM72D00-xxx/PR, xxx=340 to 385 in steps of 5
JAM60D00-xxx/PR/1500V, xxx=285 to 320 in steps of 5
JAM60D00-xxx/PR, xxx=285 to 320 in steps of 5
JAM72D09-xxx/BP/1500V, xxx=360 to 400 in steps of 5
JAM72D09-xxx/BP, xxx=360 to 400 in steps of 5
JAM60D09-xxx/BP/1500V, xxx=300 to 340 in steps of 5
JAM60D09-xxx/BP, xxx=300 to 340 in steps of 5
JAM72D10-xxx/MB/1500V, xxx=385 to 430 in steps of 5
JAM72D10-xxx/MB, xxx=385 to 430 in steps of 5
JAM60D10-xxx/MB/1500V, xxx=320 to 355 in steps of 5
JAM60D10-xxx/MB, xxx=320 to 355 in steps of 5
JAM72D10-xxx/BP/1500V, xxx=385 to 415 in steps of 5
JAM72D10-xxx/BP, xxx=385 to 415 in steps of 5
JAM60D10-xxx/BP/1500V, xxx=320 to 345 in steps of 5
JAM60D10-xxx/BP, xxx=320 to 345 in steps of 5
JAM66D10-xxx/MB, xxx=360 to 380 in steps of 5
JAM66D10-xxx/MB/1500V, xxx=360 to 380 in steps of 5
JAM78D10-xxx/MB, xxx=435 to 455 in steps of 5
JAM78D10-xxx/MB/1500V, xxx=435 to 455 in steps of 5
JAM72D20-xxx/MB, xxx=430 to 465 in steps of 5
JAM72D20-xxx/MB/1500V, xxx=430 to 465 in steps of 5
JAM60D20-xxx/MB, xxx=355 to 385 in steps of 5
JAM60D20-xxx/MB/1500V, xxx=355 to 385 in steps of 5
JAM6(K)-72-xxx/PR/1500V, xxx=345 to 370 in steps of 5
JAM6(K)-60-xxx/PR/1500V, xxx=285 to 310 in steps of 5
JAM6(K)-72-xxx/4BB/1500V, xxx=320 to 345 in steps of 5
JAM6(K)-60-xxx/4BB/1500V, xxx=265 to 285 in steps of 5
JAM72S01-xxx/SC/1500V, xxx=320 to 365 in steps of 5
JAM60S01-xxx/SC/1500V, xxx=265 to 305 in steps of 5
JAM72S01-xxx/PR, xxx=345 to 390 in steps of 5
JAM60S01-xxx/PR/1500V, xxx=285 to 325 in steps of 5
JAM72S03-xxx/PR/1500V, xxx=360 to 395 in steps of 5
JAM60S03-xxx/PR/1500V, xxx=300 to 330 in steps of 5
JAM72S09-xxx/PR/1500V, xxx=370 to 405 in steps of 5
JAM60S09-xxx/PR/1500V, xxx=310 to 335 in steps of 5
JAM72S10-xxx/PR/1500V, xxx=380 to 410 in steps of 5
JAM60S10-xxx/PR/1500V, xxx=315 to 345 in steps of 5
JAM78S10-xxx/MR/1500V, xxx=435 to 465 in steps of 5
JAM66S10-xxx/MR/1500V, xxx=345 to 390 in steps of 5
JAM72S09-xxx/BP/1500V, xxx=375 to 385 in steps of 5
JAM60S09-xxx/BP/1500V, xxx=315 to 320 in steps of 5
JAM72S10-xxx/BP/1500V, xxx=385 to 400 in steps of 5
JAM60S10-xxx/BP/1500V, xxx=320 to 330 in steps of 5
JAM72S10-xxx/MB/1500V, xxx=395 to 415 in steps of 5
JAM60S10-xxx/MB/1500V, xxx=330 to 345 in steps of 5
JAM72S20-xxx/MR/1500V, xxx=430 to 470 in steps of 5
JAM60S20-xxx/MR/1500V, xxx=355 to 390 in steps of 5
JAM72S30-xxx/MR/1500V, xxx=510 to 555 in steps of 5
JAM66S30-xxx/MR/1500V, xxx=470 to 505 in steps of 5
JAM60S30-xxx/MR/1500V, xxx=435 to 460 in steps of 5

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JAM54S30-xxx/MR/1500V, xxx=390 to 425 in steps of 5
JAM60S21-xxx/MR/1500V, xxx=355 to 390 in steps of 5
JAM72D30-xxx/MB, xxx=505 to 555 in steps of 5
JAM72D30-xxx/MB/1500V, xxx=505 to 555 in steps of 5
JAM66D30-xxx/MB, xxx=465 to 505 in steps of 5
JAM66D30-xxx/MB/1500V, xxx=465 to 505 in steps of 5
JAM60D30-xxx/MB, xxx=435 to 460 in steps of 5
JAM60D30-xxx/MB/1500V, xxx=435 to 460 in steps of 5
JAM54D30-xxx/MB, xxx=390 to 415 in steps of 5
JAM54D30-xxx/MB/1500V, xxx=390 to 415 in steps of 5
JAM54D31-xxx/MB, xxx=395 to 400 in steps of 5
JAM54D31-xxx/MB/1500V, xxx=395 to 400 in steps of 5
JAM72S20-xxx/MB/1500V, xxx=450 to 465 in steps of 5
JAM60S20-xxx/MB/1500V, xxx=375 to 390 in steps of 5
JAM76S11-xxxPR(B)/1500V, xxx=395 to 415 in steps of 5
JAM78D30-xxx/GB, JAM78D30-xxx/GB/1500V,
xxx=585 to 610 in steps of 5
JAM72D30-xxx/GB, JAM72D30-xxx/GB/1500V,
xxx=540 to 560 in steps of 5
JAM66D30-xxx/GB, JAM66D30-xxx/GB/1500V,
xxx=495 to 510 in steps of 5
JAM60D30-xxx/GB, JAM60D30-xxx/GB/1500V,
xxx=450 to 465 in steps of 5
JAM54D30-xxx/GB, JAM54D30-xxx/GB/1500V,
xxx=405 to 420 in steps of 5
JAM54D31-xxx/GB, JAM54D31-xxx/GB/1500V,
xxx=410 to 420 in steps of 5
JAM78S30-xxx/GR/1500V, xxx=575 to 610 in steps of 5
JAM72S30-xxx/GR/1500V, xxx=535 to 560 in steps of 5
JAM66S30-xxx/GR/1500V, xxx=500 to 510 in steps of 5
JAM60S30-xxx/GR/1500V, xxx=445 to 465 in steps of 5
JAM54S30-xxx/GR/1500V, xxx=400 to 420 in steps of 5
JAM78S31-xxx/GR/1500V, xxx=570 to 590 in steps of 5
JAM72S31-xxx/GR/1500V, xxx=525 to 545 in steps of 5
JAM66S31-xxx/GR/1500V, xxx=480 to 500 in steps of 5
JAM60S31-xxx/GR/1500V, xxx=435 to 450 in steps of 5
JAM54S31-xxx/GR/1500V, xxx=395 to 415 in steps of 5
JAM72S10-xxx/MR/1500V, xxx=390 to 430 in steps of 5
JAM60S10-xxx/MR/1500V, xxx=325 to 355 in steps of 5
JAM72S17-xxx/MR/1500V, xxx=390 to 430 in steps of 5
JAM60S17-xxx/MR/1500V, xxx=315 to 355 in steps of 5
JAM72S31-xxx/MR/1500V, xxx=510 to 545 in steps of 5
JAM66S31-xxx/MR/1500V, xxx=470 to 500 in steps of 5
JAM60S31-xxx/MR/1500V, xxx=425 to 450 in steps of 5
JAM54S31-xxx/MR/1500V, xxx=385 to 405 in steps of 5
JAM78S30-xxx/MR/1500V, xxx=580 to 605 in steps of 5
JAM72S17-xxx/GR/1500V, xxx=385 to 400 in steps of 5
JAM78D30-xxx/MB, JAM78D30-xxx/MB/1500V,
xxx=580 to 605 in steps of 5
JAM72D30-xxx/HB, JAM72D30-xxx/HB/1500V,
xxx=530 to 560 in steps of 5
JAM78D40-xxx/MB, xxx=580 to 630 in steps of 5
JAM78D40-xxx/MB/1500V, xxx=580 to 630 in steps of 5
JAM72D40-xxx/MB, xxx=540 to 580 in steps of 5
JAM72D40-xxx/MB/1500V, xxx=540 to 580 in steps of 5
JAM66D40-xxx/MB, xxx=500 to 530 in steps of 5
JAM66D40-xxx/MB/1500V, xxx=500 to 530 in steps of 5
JAM60D40-xxx/MB, xxx=455 to 480 in steps of 5
JAM60D40-xxx/MB/1500V, xxx=455 to 480 in steps of 5
JAM54D40-xxx/MB, xxx=405 to 435 in steps of 5
JAM54D40-xxx/MB/1500V, xxx=405 to 435 in steps of 5
JAM78D40-xxx/GB, xxx= 580 to 635 in steps of 5

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JAM78D40-xxx/GB/1500V, xxx= 580 to 635 in steps of 5
JAM72D40-xxx/GB, xxx= 540 to 585 in steps of 5
JAM72D40-xxx/GB/1500V, xxx= 540 to 585 in steps of 5
JAM66D40-xxx/GB, xxx= 500 to 535 in steps of 5
JAM66D40-xxx/GB/1500V, xxx= 500 to 535 in steps of 5
JAM60D40-xxx/GB, xxx= 455 to 485 in steps of 5
JAM60D40-xxx/GB/1500V, xxx= 455 to 485 in steps of 5
JAM54D40-xxx/GB, xxx= 405 to 440 in steps of 5
JAM54D40-xxx/GB/1500V, xxx= 405 to 440 in steps of 5
JAM54D41-xxx/GB, xxx= 415 to 435 in steps of 5
JAM54D41-xxx/GB/1500V, xxx= 415 to 435 in steps of 5
JAM72S40-xxx/GR/1500V, xxx=540 to 575 in steps of 5
JAM66S40-xxx/GR/1500V, xxx=495 to 525 in steps of 5
JAM60S40-xxx/GR/1500V, xxx=450 to 480 in steps of 5
JAM54S40-xxx/GR/1500V, xxx=405 to 430 in steps of 5
JAM72S41-xxx/GR/1500V, xxx=540 to 570 in steps of 5
JAM66S41-xxx/GR/1500V, xxx=495 to 525 in steps of 5
JAM60S41-xxx/GR/1500V, xxx=450 to 475 in steps of 5
JAM54S41-xxx/GR/1500V, xxx=405 to 430 in steps of 5
JAM66D35-xxx/MB/1500V, JAM66D35-xxx/MB,
xxx= 650 to 665 in steps of 5;
JAM60D35-xxx/MB/1500V, JAM60D35-xxx/MB,
xxx= 590 to 605 in steps of 5;
JAM72D30-xxx /TB/1500V, JAM72D30-xxx /TB,
xxx= 540 to 580 in steps of 5;
JAM66S35-xxx/MR/1500V, xxx= 650 to 670 in steps of 5;
JAM60S35-xxx/MR/1500V, xxx= 590 to 610 in steps of 5;
JAM72D40-xxx/LB, xxx= 575 to 600 in steps of 5;
JAM72D40-xxx/LB/1500V, xxx= 575 to 600 in steps of 5;
JAM54D40-xxx/LB, xxx= 420 to 450 in steps of 5;
JAM54D40-xxx/LB/1500V, xxx= 420 to 450 in steps of 5;
JAM54D41-xxx/LB, xxx= 420 to 440 in steps of 5;
JAM54D41-xxx/LB/1500V, xxx= 420 to 440 in steps of 5;
JAM72D42-xxx/LB, xxx= 605 to 630 in steps of 5
JAM72D42-xxx/LB/1500V, xxx= 605 to 630 in steps of 5
JAM72D30-xxx/LB, xxx= 555 to 575 in steps of 5
JAM72D30-xxx/LB/1500V, xxx= 555 to 575 in steps of 5
JAM54D30-xxx/LB, xxx= 420 to 430 in steps of 5
JAM54D30-xxx/LB/1500V, xxx= 420 to 430 in steps of 5

Maximum System Voltage: 1000 or 1500 V DC
JAM72S01-xxx/SC, xxx=320 to 365 in steps of 5
JAM60S01-xxx/SC, xxx=265 to 305 in steps of 5
JAM60S01-xxx/PR, xxx=285 to 325 in steps of 5
JAM72S03-xxx/PR, xxx=360 to 395 in steps of 5
JAM60S03-xxx/PR, xxx=300 to 330 in steps of 5
JAM72S09-xxx/PR, xxx=370 to 405 in steps of 5
JAM60S09-xxx/PR, xxx=310 to 335 in steps of 5
JAM72S10-xxx/PR, xxx=380 to 410 in steps of 5
JAM60S10-xxx/PR, xxx=315 to 345 in steps of 5
JAM72S10-xxx/MR, xxx=390 to 430 in steps of 5
JAM60S10-xxx/MR, xxx=325 to 355 in steps of 5
JAM78S10-xxx/MR, xxx=435 to 465 in steps of 5
JAM66S10-xxx/MR, xxx=345 to 390 in steps of 5
JAM72S09-xxx/BP, xxx=375 to 385 in steps of 5
JAM60S09-xxx/BP, xxx=315 to 320 in steps of 5
JAM72S10-xxx/BP, xxx=385 to 400 in steps of 5
JAM60S10-xxx/BP, xxx=320 to 330 in steps of 5
JAM72S10-xxx/MB, xxx=395 to 415 in steps of 5
JAM60S10-xxx/MB, xxx=330 to 345 in steps of 5

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JAM72S20-xxx/MR, xxx=430 to 470 in steps of 5
 JAM60S20-xxx/MR, xxx=355 to 390 in steps of 5
 JAM78S10-xxx/MR-J, xxx=435 to 465 in steps of 5
 JAM72S30-xxx/MR, xxx=510 to 555 in steps of 5
 JAM66S30-xxx/MR, xxx=470 to 505 in steps of 5
 JAM60S30-xxx/MR, xxx=435 to 460 in steps of 5
 JAM60S21-xxx/MR, xxx=355 to 390 in steps of 5
 JAM54S30-xxx/MR, xxx=390 to 425 in steps of 5
 JAM68S11-xxx/PR(B), xxx=345 to 365 in steps of 5
 JAM72S20-xxx/MB, xxx=450 to 465 in steps of 5
 JAM60S20-xxx/MB, xxx=375 to 390 in steps of 5
 JAM76S11-xxxPR(B), xxx=395 to 415 in steps of 5
 JAM78S30-xxx/GR, xxx=575 to 610 in steps of 5
 JAM72S30-xxx/GR, xxx=535 to 560 in steps of 5
 JAM66S30-xxx/GR, xxx=500 to 510 in steps of 5
 JAM60S30-xxx/GR, xxx=445 to 465 in steps of 5
 JAM54S30-xxx/GR, xxx=400 to 420 in steps of 5
 JAM78S31-xxx/GR, xxx=570 to 590 in steps of 5
 JAM72S31-xxx/GR, xxx=525 to 545 in steps of 5
 JAM66S31-xxx/GR, xxx=480 to 500 in steps of 5
 JAM60S31-xxx/GR, xxx=435 to 450 in steps of 5
 JAM54S31-xxx/GR, xxx=395 to 415 in steps of 5
 JAM72S31-xxx/MR, xxx=510 to 545 in steps of 5
 JAM66S31-xxx/MR, xxx=470 to 500 in steps of 5
 JAM60S31-xxx/MR, xxx=425 to 450 in steps of 5
 JAM54S31-xxx/MR, xxx=385 to 405 in steps of 5
 JAM72S17-xxx/MR, xxx=390 to 430 in steps of 5
 JAM60S17-xxx/MR, xxx=315 to 355 in steps of 5
 JAM78S30-xxx/MR, xxx=580 to 605 in steps of 5
 JAM72S17-xxx/GR, xxx=385 to 400 in steps of 5
 JAM72S40-xxx/GR, xxx=540 to 575 in steps of 5
 JAM66S40-xxx/GR, xxx=495 to 525 in steps of 5
 JAM60S40-xxx/GR, xxx=450 to 480 in steps of 5
 JAM54S40-xxx/GR, xxx=405 to 430 in steps of 5
 JAM72S41-xxx/GR, xxx=540 to 570 in steps of 5
 JAM66S41-xxx/GR, xxx=495 to 525 in steps of 5
 JAM60S41-xxx/GR, xxx=450 to 475 in steps of 5
 JAM54S41-xxx/GR, xxx=405 to 430 in steps of 5
 JAM66S35-xxx/MR, xxx= 650 to 670 in steps of 5
 JAM60S35-xxx/MR, xxx= 590 to 610 in steps of 5
 JAM72S30-xxx/LR, xxx=555 to 580 in steps of 5
 JAM54S30-XXX/LR, xxx=415 to 435 in steps of 5
 JAM54S31-XXX/LR, xxx=415 to 420 in steps of 5
 xxx is standing for rated output power at STC



CERTIFICATE

No. Z2 072092 0300 Rev. 23

Parameters:

Construction:	Framed or Frameless, with Junction box, cable and Connectors.
Fire Safety Class:	Class C or Class A according to UL790.
Safety Class:	Class II
Maximum System Voltage:	1000 V DC or 1500V DC
PID Test Condition:	±1000 V DC, 96h, 60°C, 85% RH or 96h, 85°C, 85% RH ±1500 V DC, 96h, 85°C, 85% RH
PID testing method according to IEC TS 62804-1:2015	
Production Facility(ies):	072092, 079395, 117043, 095903, 108746, 109998, 112017, 113943, 114922, 001783, 004170, 113691, 090968, 119123, 120210, 117684, 114994, 120736, 115500, 120016, 108093

Tested according to:

IEC 61215-1(ed.1)
IEC 61215-1-1(ed.1)
IEC 61215-2(ed.1)
IEC 61730-1(ed.2)
IEC 61730-2(ed.2)
PPP 58042B:2015

This authorizes the application of the Certification Mark(s) shown below to the models described in the Product(s) Covered section when made in accordance with the conditions set forth in the Certification Agreement and Listing Report. This authorization also applies to multiple listee model(s) identified on the correlation page of the Listing Report.

This document is the property of Intertek Testing Services and is not transferable. The certification mark(s) may be applied only at the location of the Party Authorized To Apply Mark.

Applicant:	Shanghai JA Solar Technology Co., Ltd.	Manufacturer:	Shanghai JA Solar Technology Co., Ltd.
	No. 118, Lane 3111, West Huancheng		No. 118, Lane 3111, West Huancheng
Address:	Road, Fengxian District, 201401	Address:	Road, Fengxian District, 201401
	Shanghai		Shanghai
Country:	P. R. China	Country:	P. R. China
Party Authorized To Apply Mark:	Same as Manufacturer		
Report Issuing Office:	Intertek Testing Services Shanghai Limited		
Control Number:	<u>4001505</u>	Authorized by:	 for L. Matthew Snyder, Certification Manager



This document supersedes all previous Authorizations to Mark for the noted Report Number.

This Authorization to Mark is for the exclusive use of Intertek's Client and is provided pursuant to the Certification agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Authorization to Mark. Only the Client is authorized to permit copying or distribution of this Authorization to Mark and then only in its entirety. Use of Intertek's Certification mark is restricted to the conditions laid out in the agreement and in this Authorization to Mark. Any further use of the Intertek name for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. Initial Factory Assessments and Follow up Services are for the purpose of assuring appropriate usage of the Certification mark in accordance with the agreement, they are not for the purposes of production quality control and do not relieve the Client of their obligations in this respect.

Intertek Testing Services NA Inc.
545 East Algonquin Road, Arlington Heights, IL 60005
Telephone 800-345-3851 or 847-439-5667 Fax 312-283-1672

Standard(s):	Terrestrial Photovoltaic (PV) Modules - Design Qualification And Type Approval - Part 1: Test Requirements [UL 61215-1:2017 Ed.1]
	Terrestrial Photovoltaic (PV) Modules - Design Qualification And Type Approval - Part 1-1: Special Requirements For Testing Of Crystalline Silicon Photovoltaic (PV) Modules [UL 61215-1-1:2017 Ed.1]
	Terrestrial Photovoltaic (PV) Modules - Design Qualification And Type Approval - Part 2: Test Procedures [UL 61215-2:2017 Ed.1]
	Photovoltaic (PV) Module Safety Qualification - Part 1: Requirements For Construction [UL 61730-1:2017 Ed.1]
	Photovoltaic (PV) Module Safety Qualification - Part 2: Requirements For Testing [UL 61730-2:2017 Ed.1]
	Photovoltaic (PV) Module Safety Qualification - Part 1: Requirements for Construction [CSA C22.2#61730-1:2019 Ed.2]
	Photovoltaic (PV) Module Safety Qualification - Part 2: Requirements for Testing [CSA C22.2#61730-2:2019 Ed.2]
Product:	Crystalline Silicon Photovoltaic modules

Brand Name: JA SOLAR 晶澳

Models:

JAM72S03-385/PR,
 JAP72S03-340/SC,
 JAM72S10- followed by 395, 400, 405, 410 or 415 followed by /MB,
 JAM60S10- followed by 330, 335, 340 or 345 followed by /MB,
 JAM72S10- followed by 395, 400, 405, 410 or 415 followed by /MR,
 JAM66S10- followed by 365, 365, 370, 375 or 380 followed by /MR,
 JAM60S10- followed by 330, 335, 340 or 345 followed by /MR,
 JAM72S09- followed by 370, 375, 380, 385, 390, 395 or 400 followed by /PR,
 JAM60S09- followed by 310, 315, 320 or 325 followed by /PR,
 JAM72S09- followed by 375, 380 or 385 followed by /BP,
 JAM60S09- followed by 315 or 320 followed by /BP,
 JAM72S10- followed by 385, 390, 395 or 400 followed by /BP,
 JAM60S10- followed by 320, 325 or 330 followed by /BP,
 JAM72S10- followed by 380, 385, 390, 395, 400 or 405 followed by /PR,
 JAM60S10- followed by 320, 325, 330 or 335 followed by /PR,
 JAM72S12- followed by 365, 370, 375, 380 or 385 followed by /PR,
 JAM60S12- followed by 305, 310, 315 or 320 followed by /PR,
 1JAM78S10- followed by 435, 440, 445, 450 or 455 followed by /MR,
 1JAM6(K)-72-335/4BB/1500V,
 JAM60S17- followed by 320, 325, or 330 followed by /MR,
 JAM72S20- followed by 430, 435, 440, 445, 450, 455, 460, 465 or 470 followed by /MR,
 JAM60S20- followed by 355, 360, 365, 370, 375, 380, 385 or 390 followed by /MR,
 JAM72S30- followed by 530, 535, 540, 545, 550 or 555 followed by /MR,
 JAM66S30- followed by 490, 495 or 500 followed by /MR,
 JAM68S11- followed by 355, 360 or 365 followed by /PR,
 JAM68S11- followed by 345, 350, 355, 360 or 365 followed by /PR(B),
 JAM76S11- followed by 395, 400, 405, 410 or 415 followed by /PR(B),
 JAM76S11- followed by 395, 400, 405, 410 or 415 followed by /PR(B)/1000V,
 JAM78S30-followed by 575, 580, 585, 590, 595 or 600 followed by /GR,
 JAM72S30-followed by 535, 540, 545 or 550 followed by /GR,
 JAM66S30-followed by 490, 495, 500 or 505 followed by /GR,
 JAM60S30-followed by 445, 450, 455 or 460 followed by /GR,
 JAM54S30-followed by 400, 405, 410 or 415 followed by /GR,
 JAM78S31-followed by 570, 575, 580, 585 or 590 followed by /GR,
 JAM72S31-followed by 530, 535 or 540 followed by /GR,
 JAM66S31-followed by 485, 490 or 495 followed by /GR,
 JAM60S31-followed by 440, 445 or 450 followed by /GR,
 JAM54S31-followed by 395, 400 or 405 followed by /GR.
 JAM60S31-followed by 430, 435, 440, 445 or 450 followed by /GR/1000V,
 JAM54S31-followed by 390, 395, 400 or 405 followed by /GR/1000V
 JAM54S30-followed by 400, 405, 410 or 415 followed by /MR,
 JAM72S31-followed by 510, 515, 520, 525, 530, 535, 540 or 545 followed by /MR,
 JAM54S31-followed by 385, 390, 395, 400 or 405 followed by /MR,
 JAM54S30-followed by 400, 405, 410 or 415 followed by /MR/1000V,
 JAM72S31-followed by 510, 515, 520, 525, 530,535, 540 or 545 followed by /MR/1000V,
 JAM54S31-followed by 385, 390, 395, 400 or 405 followed by /MR/1000V,
 JAM72S17-followed by 390, 395, 400 or 405 followed by /MR,
 JAM72S17-followed by 390, 395, 400 or 405 followed by /MR/1000V,
 JAM78S30- followed by 580, 585, 590, 595, 600 or 605 followed by /MR.

This authorizes the application of the Certification Mark(s) shown below to the models described in the Product(s) Covered section when made in accordance with the conditions set forth in the Certification Agreement and Listing Report. This authorization also applies to multiple listee model(s) identified on the correlation page of the Listing Report.

This document is the property of Intertek Testing Services and is not transferable. The certification mark(s) may be applied only at the location of the Party Authorized To Apply Mark.

Applicant:	Shanghai JA Solar Technology Co., Ltd.	Manufacturer:	Hefei JA Solar Technology Co., Ltd.
	No. 118, Lane 3111, West Huancheng		No. 999, Changning Road, Hi-tech Zone,
Address:	Road, Fengxian District, 201401	Address:	Hefei City, 230088, Anhui Province
	Shanghai		
Country:	P. R. China	Country:	P. R. China
Party Authorized To Apply Mark:	Same as Manufacturer		
Report Issuing Office:	Intertek Testing Services Shanghai Limited		
Control Number:	<u>4005519</u>	Authorized by:	 for L. Matthew Snyder, Certification Manager



This document supersedes all previous Authorizations to Mark for the noted Report Number.

This Authorization to Mark is for the exclusive use of Intertek's Client and is provided pursuant to the Certification agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Authorization to Mark. Only the Client is authorized to permit copying or distribution of this Authorization to Mark and then only in its entirety. Use of Intertek's Certification mark is restricted to the conditions laid out in the agreement and in this Authorization to Mark. Any further use of the Intertek name for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. Initial Factory Assessments and Follow up Services are for the purpose of assuring appropriate usage of the Certification mark in accordance with the agreement, they are not for the purposes of production quality control and do not relieve the Client of their obligations in this respect.

Intertek Testing Services NA Inc.
545 East Algonquin Road, Arlington Heights, IL 60005
Telephone 800-345-3851 or 847-439-5667 Fax 312-283-1672

Standard(s):	Terrestrial Photovoltaic (PV) Modules - Design Qualification And Type Approval - Part 1: Test Requirements [UL 61215-1:2017 Ed.1]
	Terrestrial Photovoltaic (PV) Modules - Design Qualification And Type Approval - Part 1-1: Special Requirements For Testing Of Crystalline Silicon Photovoltaic (PV) Modules [UL 61215-1-1:2017 Ed.1]
	Terrestrial Photovoltaic (PV) Modules - Design Qualification And Type Approval - Part 2: Test Procedures [UL 61215-2:2017 Ed.1]
	Photovoltaic (PV) Module Safety Qualification - Part 1: Requirements For Construction [UL 61730-1:2017 Ed.1]
	Photovoltaic (PV) Module Safety Qualification - Part 2: Requirements For Testing [UL 61730-2:2017 Ed.1]
	Photovoltaic (PV) Module Safety Qualification - Part 1: Requirements for Construction [CSA C22.2#61730-1:2019 Ed.2]
	Photovoltaic (PV) Module Safety Qualification - Part 2: Requirements for Testing [CSA C22.2#61730-2:2019 Ed.2]
Product:	Crystalline Silicon Photovoltaic modules

Brand Name: JA SOLAR 晶澳

Models:

JAM72S03-385/PR,
 JAP72S03-340/SC,
 JAM72S10- followed by 395, 400, 405, 410 or 415 followed by /MB,
 JAM60S10- followed by 330, 335, 340 or 345 followed by /MB,
 JAM72S10- followed by 395, 400, 405, 410 or 415 followed by /MR,
 JAM66S10- followed by 365, 365, 370, 375 or 380 followed by /MR,
 JAM60S10- followed by 330, 335, 340 or 345 followed by /MR,
 JAM72S09- followed by 370, 375, 380, 385, 390, 395 or 400 followed by /PR,
 JAM60S09- followed by 310, 315, 320 or 325 followed by /PR,
 JAM72S09- followed by 375, 380 or 385 followed by /BP,
 JAM60S09- followed by 315 or 320 followed by /BP,
 JAM72S10- followed by 385, 390, 395 or 400 followed by /BP,
 JAM60S10- followed by 320, 325 or 330 followed by /BP,
 JAM72S10- followed by 380, 385, 390, 395, 400 or 405 followed by /PR,
 JAM60S10- followed by 320, 325, 330 or 335 followed by /PR,
 JAM72S12- followed by 365, 370, 375, 380 or 385 followed by /PR,
 JAM60S12- followed by 305, 310, 315 or 320 followed by /PR,
 1JAM78S10- followed by 435, 440, 445, 450 or 455 followed by /MR,
 1JAM6(K)-72-335/4BB/1500V,
 JAM60S17- followed by 320, 325, or 330 followed by /MR,
 JAM72S20- followed by 430, 435, 440, 445, 450, 455, 460, 465 or 470 followed by /MR,
 JAM60S20- followed by 355, 360, 365, 370, 375, 380, 385 or 390 followed by /MR,
 JAM72S30- followed by 530, 535, 540, 545, 550 or 555 followed by /MR,
 JAM66S30- followed by 490, 495 or 500 followed by /MR,
 JAM68S11- followed by 355, 360 or 365 followed by /PR,
 JAM68S11- followed by 345, 350, 355, 360 or 365 followed by /PR(B),
 JAM76S11- followed by 395, 400, 405, 410 or 415 followed by /PR(B),
 JAM76S11- followed by 395, 400, 405, 410 or 415 followed by /PR(B)/1000V,
 JAM78S30-followed by 575, 580, 585, 590, 595 or 600 followed by /GR,
 JAM72S30-followed by 535, 540, 545 or 550 followed by /GR,
 JAM66S30-followed by 490, 495, 500 or 505 followed by /GR,
 JAM60S30-followed by 445, 450, 455 or 460 followed by /GR,
 JAM54S30-followed by 400, 405, 410 or 415 followed by /GR,
 JAM78S31-followed by 570, 575, 580, 585 or 590 followed by /GR,
 JAM72S31-followed by 530, 535 or 540 followed by /GR,
 JAM66S31-followed by 485, 490 or 495 followed by /GR,
 JAM60S31-followed by 440, 445 or 450 followed by /GR,
 JAM54S31-followed by 395, 400 or 405 followed by /GR.
 JAM60S31-followed by 430, 435, 440, 445 or 450 followed by /GR/1000V,
 JAM54S31-followed by 390, 395, 400 or 405 followed by /GR/1000V
 JAM54S30-followed by 400, 405, 410 or 415 followed by /MR,
 JAM72S31-followed by 510, 515, 520, 525, 530, 535, 540 or 545 followed by /MR,
 JAM54S31-followed by 385, 390, 395, 400 or 405 followed by /MR,
 JAM54S30-followed by 400, 405, 410 or 415 followed by /MR/1000V,
 JAM72S31-followed by 510, 515, 520, 525, 530,535, 540 or 545 followed by /MR/1000V,
 JAM54S31-followed by 385, 390, 395, 400 or 405 followed by /MR/1000V,
 JAM72S17-followed by 390, 395, 400 or 405 followed by /MR,
 JAM72S17-followed by 390, 395, 400 or 405 followed by /MR/1000V,
 JAM78S30- followed by 580, 585, 590, 595, 600 or 605 followed by /MR.

This authorizes the application of the Certification Mark(s) shown below to the models described in the Product(s) Covered section when made in accordance with the conditions set forth in the Certification Agreement and Listing Report. This authorization also applies to multiple listee model(s) identified on the correlation page of the Listing Report.

This document is the property of Intertek Testing Services and is not transferable. The certification mark(s) may be applied only at the location of the Party Authorized To Apply Mark.

Applicant:	Shanghai JA Solar Technology Co., Ltd.	Manufacturer:	VINA SOLAR TECHNOLOGY CO., LTD.
	No. 118, Lane 3111, West Huancheng		FACTORY E12, LOT CN-03, Van Trung
Address:	Road, Fengxian District, 201401	Address:	Industrial park, Bac Giang
	Shanghai		
Country:	P. R. China	Country:	Vietnam
Party Authorized To Apply Mark:	Same as Manufacturer		
Report Issuing Office:	Intertek Testing Services Shanghai Limited		
Control Number:	<u>5001344</u>	Authorized by:	 for L. Matthew Snyder, Certification Manager



This document supersedes all previous Authorizations to Mark for the noted Report Number.

This Authorization to Mark is for the exclusive use of Intertek's Client and is provided pursuant to the Certification agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Authorization to Mark. Only the Client is authorized to permit copying or distribution of this Authorization to Mark and then only in its entirety. Use of Intertek's Certification mark is restricted to the conditions laid out in the agreement and in this Authorization to Mark. Any further use of the Intertek name for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. Initial Factory Assessments and Follow up Services are for the purpose of assuring appropriate usage of the Certification mark in accordance with the agreement, they are not for the purposes of production quality control and do not relieve the Client of their obligations in this respect.

Intertek Testing Services NA Inc.
545 East Algonquin Road, Arlington Heights, IL 60005
Telephone 800-345-3851 or 847-439-5667 Fax 312-283-1672

Standard(s):	Terrestrial Photovoltaic (PV) Modules - Design Qualification And Type Approval - Part 1: Test Requirements [UL 61215-1:2017 Ed.1]
	Terrestrial Photovoltaic (PV) Modules - Design Qualification And Type Approval - Part 1-1: Special Requirements For Testing Of Crystalline Silicon Photovoltaic (PV) Modules [UL 61215-1-1:2017 Ed.1]
	Terrestrial Photovoltaic (PV) Modules - Design Qualification And Type Approval - Part 2: Test Procedures [UL 61215-2:2017 Ed.1]
	Photovoltaic (PV) Module Safety Qualification - Part 1: Requirements For Construction [UL 61730-1:2017 Ed.1]
	Photovoltaic (PV) Module Safety Qualification - Part 2: Requirements For Testing [UL 61730-2:2017 Ed.1]
	Photovoltaic (PV) Module Safety Qualification - Part 1: Requirements for Construction [CSA C22.2#61730-1:2019 Ed.2]
	Photovoltaic (PV) Module Safety Qualification - Part 2: Requirements for Testing [CSA C22.2#61730-2:2019 Ed.2]
Product:	Crystalline Silicon Photovoltaic modules

Brand Name: JA SOLAR 晶澳

Models:

JAM72S03-385/PR,
 JAP72S03-340/SC,
 JAM72S10- followed by 395, 400, 405, 410 or 415 followed by /MB,
 JAM60S10- followed by 330, 335, 340 or 345 followed by /MB,
 JAM72S10- followed by 395, 400, 405, 410 or 415 followed by /MR,
 JAM66S10- followed by 365, 365, 370, 375 or 380 followed by /MR,
 JAM60S10- followed by 330, 335, 340 or 345 followed by /MR,
 JAM72S09- followed by 370, 375, 380, 385, 390, 395 or 400 followed by /PR,
 JAM60S09- followed by 310, 315, 320 or 325 followed by /PR,
 JAM72S09- followed by 375, 380 or 385 followed by /BP,
 JAM60S09- followed by 315 or 320 followed by /BP,
 JAM72S10- followed by 385, 390, 395 or 400 followed by /BP,
 JAM60S10- followed by 320, 325 or 330 followed by /BP,
 JAM72S10- followed by 380, 385, 390, 395, 400 or 405 followed by /PR,
 JAM60S10- followed by 320, 325, 330 or 335 followed by /PR,
 JAM72S12- followed by 365, 370, 375, 380 or 385 followed by /PR,
 JAM60S12- followed by 305, 310, 315 or 320 followed by /PR,
 1JAM78S10- followed by 435, 440, 445, 450 or 455 followed by /MR,
 1JAM6(K)-72-335/4BB/1500V,
 JAM60S17- followed by 320, 325, or 330 followed by /MR,
 JAM72S20- followed by 430, 435, 440, 445, 450, 455, 460, 465 or 470 followed by /MR,
 JAM60S20- followed by 355, 360, 365, 370, 375, 380, 385 or 390 followed by /MR,
 JAM72S30- followed by 530, 535, 540, 545, 550 or 555 followed by /MR,
 JAM66S30- followed by 490, 495 or 500 followed by /MR,
 JAM68S11- followed by 355, 360 or 365 followed by /PR,
 JAM68S11- followed by 345, 350, 355, 360 or 365 followed by /PR(B),
 JAM76S11- followed by 395, 400, 405, 410 or 415 followed by /PR(B),
 JAM76S11- followed by 395, 400, 405, 410 or 415 followed by /PR(B)/1000V,
 JAM78S30-followed by 575, 580, 585, 590, 595 or 600 followed by /GR,
 JAM72S30-followed by 535, 540, 545 or 550 followed by /GR,
 JAM66S30-followed by 490, 495, 500 or 505 followed by /GR,
 JAM60S30-followed by 445, 450, 455 or 460 followed by /GR,
 JAM54S30-followed by 400, 405, 410 or 415 followed by /GR,
 JAM78S31-followed by 570, 575, 580, 585 or 590 followed by /GR,
 JAM72S31-followed by 530, 535 or 540 followed by /GR,
 JAM66S31-followed by 485, 490 or 495 followed by /GR,
 JAM60S31-followed by 440, 445 or 450 followed by /GR,
 JAM54S31-followed by 395, 400 or 405 followed by /GR.
 JAM60S31-followed by 430, 435, 440, 445 or 450 followed by /GR/1000V,
 JAM54S31-followed by 390, 395, 400 or 405 followed by /GR/1000V
 JAM54S30-followed by 400, 405, 410 or 415 followed by /MR,
 JAM72S31-followed by 510, 515, 520, 525, 530, 535, 540 or 545 followed by /MR,
 JAM54S31-followed by 385, 390, 395, 400 or 405 followed by /MR,
 JAM54S30-followed by 400, 405, 410 or 415 followed by /MR/1000V,
 JAM72S31-followed by 510, 515, 520, 525, 530,535, 540 or 545 followed by /MR/1000V,
 JAM54S31-followed by 385, 390, 395, 400 or 405 followed by /MR/1000V,
 JAM72S17-followed by 390, 395, 400 or 405 followed by /MR,
 JAM72S17-followed by 390, 395, 400 or 405 followed by /MR/1000V,
 JAM78S30- followed by 580, 585, 590, 595, 600 or 605 followed by /MR.

This authorizes the application of the Certification Mark(s) shown below to the models described in the Product(s) Covered section when made in accordance with the conditions set forth in the Certification Agreement and Listing Report. This authorization also applies to multiple listee model(s) identified on the correlation page of the Listing Report.

This document is the property of Intertek Testing Services and is not transferable. The certification mark(s) may be applied only at the location of the Party Authorized To Apply Mark.

Applicant:	Shanghai JA Solar Technology Co., Ltd.	Manufacturer:	JA Solar (Xingtai) Co., Ltd.
	No. 118, Lane 3111, West Huancheng		No. 1688, Chang An Road, Xingtai
Address:	Road, Fengxian District, 201401	Address:	Economic Development Area, Xingtai
	Shanghai		City, Hebei Province 054000
Country:	P. R. China	Country:	P. R. China
Party Authorized To Apply Mark:	Same as Manufacturer		
Report Issuing Office:	Intertek Testing Services Shanghai Limited		
Control Number:	<u>5016163</u>	Authorized by:	 for L. Matthew Snyder, Certification Manager



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Intertek Testing Services NA Inc.
545 East Algonquin Road, Arlington Heights, IL 60005
Telephone 800-345-3851 or 847-439-5667 Fax 312-283-1672

Standard(s):	Terrestrial Photovoltaic (PV) Modules - Design Qualification And Type Approval - Part 1: Test Requirements [UL 61215-1:2017 Ed.1]
	Terrestrial Photovoltaic (PV) Modules - Design Qualification And Type Approval - Part 1-1: Special Requirements For Testing Of Crystalline Silicon Photovoltaic (PV) Modules [UL 61215-1-1:2017 Ed.1]
	Terrestrial Photovoltaic (PV) Modules - Design Qualification And Type Approval - Part 2: Test Procedures [UL 61215-2:2017 Ed.1]
	Photovoltaic (PV) Module Safety Qualification - Part 1: Requirements For Construction [UL 61730-1:2017 Ed.1]
	Photovoltaic (PV) Module Safety Qualification - Part 2: Requirements For Testing [UL 61730-2:2017 Ed.1]
	Photovoltaic (PV) Module Safety Qualification - Part 1: Requirements for Construction [CSA C22.2#61730-1:2019 Ed.2]
	Photovoltaic (PV) Module Safety Qualification - Part 2: Requirements for Testing [CSA C22.2#61730-2:2019 Ed.2]
Product:	Crystalline Silicon Photovoltaic modules

Brand Name: JA SOLAR 晶澳

Models:

JAM72S03-385/PR,
 JAP72S03-340/SC,
 JAM72S10- followed by 395, 400, 405, 410 or 415 followed by /MB,
 JAM60S10- followed by 330, 335, 340 or 345 followed by /MB,
 JAM72S10- followed by 395, 400, 405, 410 or 415 followed by /MR,
 JAM66S10- followed by 365, 365, 370, 375 or 380 followed by /MR,
 JAM60S10- followed by 330, 335, 340 or 345 followed by /MR,
 JAM72S09- followed by 370, 375, 380, 385, 390, 395 or 400 followed by /PR,
 JAM60S09- followed by 310, 315, 320 or 325 followed by /PR,
 JAM72S09- followed by 375, 380 or 385 followed by /BP,
 JAM60S09- followed by 315 or 320 followed by /BP,
 JAM72S10- followed by 385, 390, 395 or 400 followed by /BP,
 JAM60S10- followed by 320, 325 or 330 followed by /BP,
 JAM72S10- followed by 380, 385, 390, 395, 400 or 405 followed by /PR,
 JAM60S10- followed by 320, 325, 330 or 335 followed by /PR,
 JAM72S12- followed by 365, 370, 375, 380 or 385 followed by /PR,
 JAM60S12- followed by 305, 310, 315 or 320 followed by /PR,
 1JAM78S10- followed by 435, 440, 445, 450 or 455 followed by /MR,
 1JAM6(K)-72-335/4BB/1500V,
 JAM60S17- followed by 320, 325, or 330 followed by /MR,
 JAM72S20- followed by 430, 435, 440, 445, 450, 455, 460, 465 or 470 followed by /MR,
 JAM60S20- followed by 355, 360, 365, 370, 375, 380, 385 or 390 followed by /MR,
 JAM72S30- followed by 530, 535, 540, 545, 550 or 555 followed by /MR,
 JAM66S30- followed by 490, 495 or 500 followed by /MR,
 JAM68S11- followed by 355, 360 or 365 followed by /PR,
 JAM68S11- followed by 345, 350, 355, 360 or 365 followed by /PR(B),
 JAM76S11- followed by 395, 400, 405, 410 or 415 followed by /PR(B),
 JAM76S11- followed by 395, 400, 405, 410 or 415 followed by /PR(B)/1000V,
 JAM78S30-followed by 575, 580, 585, 590, 595 or 600 followed by /GR,
 JAM72S30-followed by 535, 540, 545 or 550 followed by /GR,
 JAM66S30-followed by 490, 495, 500 or 505 followed by /GR,
 JAM60S30-followed by 445, 450, 455 or 460 followed by /GR,
 JAM54S30-followed by 400, 405, 410 or 415 followed by /GR,
 JAM78S31-followed by 570, 575, 580, 585 or 590 followed by /GR,
 JAM72S31-followed by 530, 535 or 540 followed by /GR,
 JAM66S31-followed by 485, 490 or 495 followed by /GR,
 JAM60S31-followed by 440, 445 or 450 followed by /GR,
 JAM54S31-followed by 395, 400 or 405 followed by /GR.
 JAM60S31-followed by 430, 435, 440, 445 or 450 followed by /GR/1000V,
 JAM54S31-followed by 390, 395, 400 or 405 followed by /GR/1000V
 JAM54S30-followed by 400, 405, 410 or 415 followed by /MR,
 JAM72S31-followed by 510, 515, 520, 525, 530, 535, 540 or 545 followed by /MR,
 JAM54S31-followed by 385, 390, 395, 400 or 405 followed by /MR,
 JAM54S30-followed by 400, 405, 410 or 415 followed by /MR/1000V,
 JAM72S31-followed by 510, 515, 520, 525, 530,535, 540 or 545 followed by /MR/1000V,
 JAM54S31-followed by 385, 390, 395, 400 or 405 followed by /MR/1000V,
 JAM72S17-followed by 390, 395, 400 or 405 followed by /MR,
 JAM72S17-followed by 390, 395, 400 or 405 followed by /MR/1000V,
 JAM78S30- followed by 580, 585, 590, 595, 600 or 605 followed by /MR.

This authorizes the application of the Certification Mark(s) shown below to the models described in the Product(s) Covered section when made in accordance with the conditions set forth in the Certification Agreement and Listing Report. This authorization also applies to multiple listee model(s) identified on the correlation page of the Listing Report.

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Applicant:	Shanghai JA Solar Technology Co., Ltd.	Manufacturer:	JA Solar New Energy Yangzhou Co., Ltd.
	No. 118, Lane 3111, West Huancheng		No.1, Jianhua Road, Economic
Address:	Road, Fengxian District, 201401	Address:	Development Zone, 225000 Yangzhou
	Shanghai		City, Jiangsu Province
Country:	P. R. China	Country:	P. R. China
Party Authorized To Apply Mark:	Same as Manufacturer		
Report Issuing Office:	Intertek Testing Services Shanghai Limited		
Control Number:	<u>5019625</u>	Authorized by:	 for L. Matthew Snyder, Certification Manager



This document supersedes all previous Authorizations to Mark for the noted Report Number.

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Intertek Testing Services NA Inc.
545 East Algonquin Road, Arlington Heights, IL 60005
Telephone 800-345-3851 or 847-439-5667 Fax 312-283-1672

Standard(s):	Terrestrial Photovoltaic (PV) Modules - Design Qualification And Type Approval - Part 1: Test Requirements [UL 61215-1:2017 Ed.1]
	Terrestrial Photovoltaic (PV) Modules - Design Qualification And Type Approval - Part 1-1: Special Requirements For Testing Of Crystalline Silicon Photovoltaic (PV) Modules [UL 61215-1-1:2017 Ed.1]
	Terrestrial Photovoltaic (PV) Modules - Design Qualification And Type Approval - Part 2: Test Procedures [UL 61215-2:2017 Ed.1]
	Photovoltaic (PV) Module Safety Qualification - Part 1: Requirements For Construction [UL 61730-1:2017 Ed.1]
	Photovoltaic (PV) Module Safety Qualification - Part 2: Requirements For Testing [UL 61730-2:2017 Ed.1]
	Photovoltaic (PV) Module Safety Qualification - Part 1: Requirements for Construction [CSA C22.2#61730-1:2019 Ed.2]
	Photovoltaic (PV) Module Safety Qualification - Part 2: Requirements for Testing [CSA C22.2#61730-2:2019 Ed.2]
Product:	Crystalline Silicon Photovoltaic modules

Brand Name: JA SOLAR 晶澳

Models:

JAM72S03-385/PR,
 JAP72S03-340/SC,
 JAM72S10- followed by 395, 400, 405, 410 or 415 followed by /MB,
 JAM60S10- followed by 330, 335, 340 or 345 followed by /MB,
 JAM72S10- followed by 395, 400, 405, 410 or 415 followed by /MR,
 JAM66S10- followed by 365, 365, 370, 375 or 380 followed by /MR,
 JAM60S10- followed by 330, 335, 340 or 345 followed by /MR,
 JAM72S09- followed by 370, 375, 380, 385, 390, 395 or 400 followed by /PR,
 JAM60S09- followed by 310, 315, 320 or 325 followed by /PR,
 JAM72S09- followed by 375, 380 or 385 followed by /BP,
 JAM60S09- followed by 315 or 320 followed by /BP,
 JAM72S10- followed by 385, 390, 395 or 400 followed by /BP,
 JAM60S10- followed by 320, 325 or 330 followed by /BP,
 JAM72S10- followed by 380, 385, 390, 395, 400 or 405 followed by /PR,
 JAM60S10- followed by 320, 325, 330 or 335 followed by /PR,
 JAM72S12- followed by 365, 370, 375, 380 or 385 followed by /PR,
 JAM60S12- followed by 305, 310, 315 or 320 followed by /PR,
 1JAM78S10- followed by 435, 440, 445, 450 or 455 followed by /MR,
 1JAM6(K)-72-335/4BB/1500V,
 JAM60S17- followed by 320, 325, or 330 followed by /MR,
 JAM72S20- followed by 430, 435, 440, 445, 450, 455, 460, 465 or 470 followed by /MR,
 JAM60S20- followed by 355, 360, 365, 370, 375, 380, 385 or 390 followed by /MR,
 JAM72S30- followed by 530, 535, 540, 545, 550 or 555 followed by /MR,
 JAM66S30- followed by 490, 495 or 500 followed by /MR,
 JAM68S11- followed by 355, 360 or 365 followed by /PR,
 JAM68S11- followed by 345, 350, 355, 360 or 365 followed by /PR(B),
 JAM76S11- followed by 395, 400, 405, 410 or 415 followed by /PR(B),
 JAM76S11- followed by 395, 400, 405, 410 or 415 followed by /PR(B)/1000V,
 JAM78S30-followed by 575, 580, 585, 590, 595 or 600 followed by /GR,
 JAM72S30-followed by 535, 540, 545 or 550 followed by /GR,
 JAM66S30-followed by 490, 495, 500 or 505 followed by /GR,
 JAM60S30-followed by 445, 450, 455 or 460 followed by /GR,
 JAM54S30-followed by 400, 405, 410 or 415 followed by /GR,
 JAM78S31-followed by 570, 575, 580, 585 or 590 followed by /GR,
 JAM72S31-followed by 530, 535 or 540 followed by /GR,
 JAM66S31-followed by 485, 490 or 495 followed by /GR,
 JAM60S31-followed by 440, 445 or 450 followed by /GR,
 JAM54S31-followed by 395, 400 or 405 followed by /GR.
 JAM60S31-followed by 430, 435, 440, 445 or 450 followed by /GR/1000V,
 JAM54S31-followed by 390, 395, 400 or 405 followed by /GR/1000V
 JAM54S30-followed by 400, 405, 410 or 415 followed by /MR,
 JAM72S31-followed by 510, 515, 520, 525, 530, 535, 540 or 545 followed by /MR,
 JAM54S31-followed by 385, 390, 395, 400 or 405 followed by /MR,
 JAM54S30-followed by 400, 405, 410 or 415 followed by /MR/1000V,
 JAM72S31-followed by 510, 515, 520, 525, 530,535, 540 or 545 followed by /MR/1000V,
 JAM54S31-followed by 385, 390, 395, 400 or 405 followed by /MR/1000V,
 JAM72S17-followed by 390, 395, 400 or 405 followed by /MR,
 JAM72S17-followed by 390, 395, 400 or 405 followed by /MR/1000V,
 JAM78S30- followed by 580, 585, 590, 595, 600 or 605 followed by /MR.

This authorizes the application of the Certification Mark(s) shown below to the models described in the Product(s) Covered section when made in accordance with the conditions set forth in the Certification Agreement and Listing Report. This authorization also applies to multiple listee model(s) identified on the correlation page of the Listing Report.

This document is the property of Intertek Testing Services and is not transferable. The certification mark(s) may be applied only at the location of the Party Authorized To Apply Mark.

Applicant:	Shanghai JA Solar Technology Co., Ltd.	Manufacturer:	Yiwu JA Solar Technology Co., Ltd.
	No. 118, Lane 3111, West Huancheng		No.165, Tongze Road, Yiting Town,
Address:	Road, Fengxian District, 201401	Address:	322000 Yiwu City, Zhejiang Province
	Shanghai		
Country:	P. R. China	Country:	P. R. China
Party Authorized To Apply Mark:	Same as Manufacturer		
Report Issuing Office:	Intertek Testing Services Shanghai Limited		
Control Number:	<u>5020726</u>	Authorized by:	 for L. Matthew Snyder, Certification Manager



This document supersedes all previous Authorizations to Mark for the noted Report Number.

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Intertek Testing Services NA Inc.
545 East Algonquin Road, Arlington Heights, IL 60005
Telephone 800-345-3851 or 847-439-5667 Fax 312-283-1672

Standard(s):	Terrestrial Photovoltaic (PV) Modules - Design Qualification And Type Approval - Part 1: Test Requirements [UL 61215-1:2017 Ed.1]
	Terrestrial Photovoltaic (PV) Modules - Design Qualification And Type Approval - Part 1-1: Special Requirements For Testing Of Crystalline Silicon Photovoltaic (PV) Modules [UL 61215-1-1:2017 Ed.1]
	Terrestrial Photovoltaic (PV) Modules - Design Qualification And Type Approval - Part 2: Test Procedures [UL 61215-2:2017 Ed.1]
	Photovoltaic (PV) Module Safety Qualification - Part 1: Requirements For Construction [UL 61730-1:2017 Ed.1]
	Photovoltaic (PV) Module Safety Qualification - Part 2: Requirements For Testing [UL 61730-2:2017 Ed.1]
	Photovoltaic (PV) Module Safety Qualification - Part 1: Requirements for Construction [CSA C22.2#61730-1:2019 Ed.2]
	Photovoltaic (PV) Module Safety Qualification - Part 2: Requirements for Testing [CSA C22.2#61730-2:2019 Ed.2]
Product:	Crystalline Silicon Photovoltaic modules

Brand Name: JA SOLAR 晶澳

Models:

JAM72S03-385/PR,
 JAP72S03-340/SC,
 JAM72S10- followed by 395, 400, 405, 410 or 415 followed by /MB,
 JAM60S10- followed by 330, 335, 340 or 345 followed by /MB,
 JAM72S10- followed by 395, 400, 405, 410 or 415 followed by /MR,
 JAM66S10- followed by 365, 365, 370, 375 or 380 followed by /MR,
 JAM60S10- followed by 330, 335, 340 or 345 followed by /MR,
 JAM72S09- followed by 370, 375, 380, 385, 390, 395 or 400 followed by /PR,
 JAM60S09- followed by 310, 315, 320 or 325 followed by /PR,
 JAM72S09- followed by 375, 380 or 385 followed by /BP,
 JAM60S09- followed by 315 or 320 followed by /BP,
 JAM72S10- followed by 385, 390, 395 or 400 followed by /BP,
 JAM60S10- followed by 320, 325 or 330 followed by /BP,
 JAM72S10- followed by 380, 385, 390, 395, 400 or 405 followed by /PR,
 JAM60S10- followed by 320, 325, 330 or 335 followed by /PR,
 JAM72S12- followed by 365, 370, 375, 380 or 385 followed by /PR,
 JAM60S12- followed by 305, 310, 315 or 320 followed by /PR,
 1JAM78S10- followed by 435, 440, 445, 450 or 455 followed by /MR,
 1JAM6(K)-72-335/4BB/1500V,
 JAM60S17- followed by 320, 325, or 330 followed by /MR,
 JAM72S20- followed by 430, 435, 440, 445, 450, 455, 460, 465 or 470 followed by /MR,
 JAM60S20- followed by 355, 360, 365, 370, 375, 380, 385 or 390 followed by /MR,
 JAM72S30- followed by 530, 535, 540, 545, 550 or 555 followed by /MR,
 JAM66S30- followed by 490, 495 or 500 followed by /MR,
 JAM68S11- followed by 355, 360 or 365 followed by /PR,
 JAM68S11- followed by 345, 350, 355, 360 or 365 followed by /PR(B),
 JAM76S11- followed by 395, 400, 405, 410 or 415 followed by /PR(B),
 JAM76S11- followed by 395, 400, 405, 410 or 415 followed by /PR(B)/1000V,
 JAM78S30-followed by 575, 580, 585, 590, 595 or 600 followed by /GR,
 JAM72S30-followed by 535, 540, 545 or 550 followed by /GR,
 JAM66S30-followed by 490, 495, 500 or 505 followed by /GR,
 JAM60S30-followed by 445, 450, 455 or 460 followed by /GR,
 JAM54S30-followed by 400, 405, 410 or 415 followed by /GR,
 JAM78S31-followed by 570, 575, 580, 585 or 590 followed by /GR,
 JAM72S31-followed by 530, 535 or 540 followed by /GR,
 JAM66S31-followed by 485, 490 or 495 followed by /GR,
 JAM60S31-followed by 440, 445 or 450 followed by /GR,
 JAM54S31-followed by 395, 400 or 405 followed by /GR.
 JAM60S31-followed by 430, 435, 440, 445 or 450 followed by /GR/1000V,
 JAM54S31-followed by 390, 395, 400 or 405 followed by /GR/1000V
 JAM54S30-followed by 400, 405, 410 or 415 followed by /MR,
 JAM72S31-followed by 510, 515, 520, 525, 530, 535, 540 or 545 followed by /MR,
 JAM54S31-followed by 385, 390, 395, 400 or 405 followed by /MR,
 JAM54S30-followed by 400, 405, 410 or 415 followed by /MR/1000V,
 JAM72S31-followed by 510, 515, 520, 525, 530,535, 540 or 545 followed by /MR/1000V,
 JAM54S31-followed by 385, 390, 395, 400 or 405 followed by /MR/1000V,
 JAM72S17-followed by 390, 395, 400 or 405 followed by /MR,
 JAM72S17-followed by 390, 395, 400 or 405 followed by /MR/1000V,
 JAM78S30- followed by 580, 585, 590, 595, 600 or 605 followed by /MR.

This authorizes the application of the Certification Mark(s) shown below to the models described in the Product(s) Covered section when made in accordance with the conditions set forth in the Certification Agreement and Listing Report. This authorization also applies to multiple listee model(s) identified on the correlation page of the Listing Report.

This document is the property of Intertek Testing Services and is not transferable. The certification mark(s) may be applied only at the location of the Party Authorized To Apply Mark.

Applicant:	Shanghai JA Solar Technology Co., Ltd.	Manufacturer:	JA SOLAR VIET NAM COMPANY LIMITED.
	No. 118, Lane 3111, West Huancheng		Lot G, Quang Chau industrial zone,
Address:	Road, Fengxian District, 201401	Address:	Quang Chau commune, Viet Yen dist,
	Shanghai		Bac Giang Province
Country:	P. R. China	Country:	Viet Nam
Party Authorized To Apply Mark:	Same as Manufacturer		
Report Issuing Office:	Intertek Testing Services Shanghai Limited		
Control Number:	<u>5020189</u>	Authorized by:	 for L. Matthew Snyder, Certification Manager



This document supersedes all previous Authorizations to Mark for the noted Report Number.

This Authorization to Mark is for the exclusive use of Intertek's Client and is provided pursuant to the Certification agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Authorization to Mark. Only the Client is authorized to permit copying or distribution of this Authorization to Mark and then only in its entirety. Use of Intertek's Certification mark is restricted to the conditions laid out in the agreement and in this Authorization to Mark. Any further use of the Intertek name for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. Initial Factory Assessments and Follow up Services are for the purpose of assuring appropriate usage of the Certification mark in accordance with the agreement, they are not for the purposes of production quality control and do not relieve the Client of their obligations in this respect.

Intertek Testing Services NA Inc.
545 East Algonquin Road, Arlington Heights, IL 60005
Telephone 800-345-3851 or 847-439-5667 Fax 312-283-1672

Standard(s):	Terrestrial Photovoltaic (PV) Modules - Design Qualification And Type Approval - Part 1: Test Requirements [UL 61215-1:2017 Ed.1]
	Terrestrial Photovoltaic (PV) Modules - Design Qualification And Type Approval - Part 1-1: Special Requirements For Testing Of Crystalline Silicon Photovoltaic (PV) Modules [UL 61215-1-1:2017 Ed.1]
	Terrestrial Photovoltaic (PV) Modules - Design Qualification And Type Approval - Part 2: Test Procedures [UL 61215-2:2017 Ed.1]
	Photovoltaic (PV) Module Safety Qualification - Part 1: Requirements For Construction [UL 61730-1:2017 Ed.1]
	Photovoltaic (PV) Module Safety Qualification - Part 2: Requirements For Testing [UL 61730-2:2017 Ed.1]
	Photovoltaic (PV) Module Safety Qualification - Part 1: Requirements for Construction [CSA C22.2#61730-1:2019 Ed.2]
	Photovoltaic (PV) Module Safety Qualification - Part 2: Requirements for Testing [CSA C22.2#61730-2:2019 Ed.2]
Product:	Crystalline Silicon Photovoltaic modules

Brand Name: JA SOLAR 晶澳

Models:

JAM72S03-385/PR,
 JAP72S03-340/SC,
 JAM72S10- followed by 395, 400, 405, 410 or 415 followed by /MB,
 JAM60S10- followed by 330, 335, 340 or 345 followed by /MB,
 JAM72S10- followed by 395, 400, 405, 410 or 415 followed by /MR,
 JAM66S10- followed by 365, 365, 370, 375 or 380 followed by /MR,
 JAM60S10- followed by 330, 335, 340 or 345 followed by /MR,
 JAM72S09- followed by 370, 375, 380, 385, 390, 395 or 400 followed by /PR,
 JAM60S09- followed by 310, 315, 320 or 325 followed by /PR,
 JAM72S09- followed by 375, 380 or 385 followed by /BP,
 JAM60S09- followed by 315 or 320 followed by /BP,
 JAM72S10- followed by 385, 390, 395 or 400 followed by /BP,
 JAM60S10- followed by 320, 325 or 330 followed by /BP,
 JAM72S10- followed by 380, 385, 390, 395, 400 or 405 followed by /PR,
 JAM60S10- followed by 320, 325, 330 or 335 followed by /PR,
 JAM72S12- followed by 365, 370, 375, 380 or 385 followed by /PR,
 JAM60S12- followed by 305, 310, 315 or 320 followed by /PR,
 1JAM78S10- followed by 435, 440, 445, 450 or 455 followed by /MR,
 1JAM6(K)-72-335/4BB/1500V,
 JAM60S17- followed by 320, 325, or 330 followed by /MR,
 JAM72S20- followed by 430, 435, 440, 445, 450, 455, 460, 465 or 470 followed by /MR,
 JAM60S20- followed by 355, 360, 365, 370, 375, 380, 385 or 390 followed by /MR,
 JAM72S30- followed by 530, 535, 540, 545, 550 or 555 followed by /MR,
 JAM66S30- followed by 490, 495 or 500 followed by /MR,
 JAM68S11- followed by 355, 360 or 365 followed by /PR,
 JAM68S11- followed by 345, 350, 355, 360 or 365 followed by /PR(B),
 JAM76S11- followed by 395, 400, 405, 410 or 415 followed by /PR(B),
 JAM76S11- followed by 395, 400, 405, 410 or 415 followed by /PR(B)/1000V,
 JAM78S30-followed by 575, 580, 585, 590, 595 or 600 followed by /GR,
 JAM72S30-followed by 535, 540, 545 or 550 followed by /GR,
 JAM66S30-followed by 490, 495, 500 or 505 followed by /GR,
 JAM60S30-followed by 445, 450, 455 or 460 followed by /GR,
 JAM54S30-followed by 400, 405, 410 or 415 followed by /GR,
 JAM78S31-followed by 570, 575, 580, 585 or 590 followed by /GR,
 JAM72S31-followed by 530, 535 or 540 followed by /GR,
 JAM66S31-followed by 485, 490 or 495 followed by /GR,
 JAM60S31-followed by 440, 445 or 450 followed by /GR,
 JAM54S31-followed by 395, 400 or 405 followed by /GR.
 JAM60S31-followed by 430, 435, 440, 445 or 450 followed by /GR/1000V,
 JAM54S31-followed by 390, 395, 400 or 405 followed by /GR/1000V
 JAM54S30-followed by 400, 405, 410 or 415 followed by /MR,
 JAM72S31-followed by 510, 515, 520, 525, 530, 535, 540 or 545 followed by /MR,
 JAM54S31-followed by 385, 390, 395, 400 or 405 followed by /MR,
 JAM54S30-followed by 400, 405, 410 or 415 followed by /MR/1000V,
 JAM72S31-followed by 510, 515, 520, 525, 530,535, 540 or 545 followed by /MR/1000V,
 JAM54S31-followed by 385, 390, 395, 400 or 405 followed by /MR/1000V,
 JAM72S17-followed by 390, 395, 400 or 405 followed by /MR,
 JAM72S17-followed by 390, 395, 400 or 405 followed by /MR/1000V,
 JAM78S30- followed by 580, 585, 590, 595, 600 or 605 followed by /MR.



Product Service

CERTIFICATE

No. Z2 072092 0295 Rev. 63

Holder of Certificate: **Shanghai JA Solar Technology Co., Ltd.**
No. 118, Lane 3111
West Huancheng Road
Fengxian District
201401 Shanghai
PEOPLE'S REPUBLIC OF CHINA

Certification Mark:



Product: **Crystalline Silicon Terrestrial Photovoltaic (PV) Modules**
Mono-Crystalline Silicon Photovoltaic Module

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the testing and certification regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.: 704061604115-78

Valid until: 2028-07-30

Date, 2023-08-01

(Zhulin Zhang)

ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ CERTIFICADO ◆ CERTIFICAT

CERTIFICATE

No. Z2 072092 0295 Rev. 63

Model(s):

1500 V DC Maximum System Voltage, Double Glass Modules:

JAM72D00-xxx/BP/1500V, JAM72D00-xxx/BP, xxx= 330 to 385 in steps of 5;
 JAM60D00-xxx/BP/1500V, JAM60D00-xxx/BP, xxx= 275 to 320 in steps of 5;
 JAM60D00-xxx/PR/1500V, JAM60D00-xxx/PR, xxx= 285 to 320 in steps of 5;
 JAM72D00-xxx/PR/1500V, JAM72D00-xxx/PR, xxx= 340 to 385 in steps of 5;
 JAM60D00-xxx/MB/1500V, JAM60D00-xxx/MB, xxx= 310 to 315 in steps of 5;
 JAM72D00-xxx/MB/1500V, JAM72D00-xxx/MB, xxx= 370 to 380 in steps of 5;
 JAM72D09-xxx/BP/1500V, JAM72D09-xxx/BP, xxx= 360 to 400 in steps of 5;
 JAM60D09-xxx/BP/1500V, JAM60D09-xxx/BP, xxx= 300 to 345 in steps of 5;
 JAM72D10-xxx/MB/1500V, JAM72D10-xxx/MB, xxx= 385 to 430 in steps of 5;
 JAM60D10-xxx/MB/1500V, JAM60D10-xxx/MB, xxx= 320 to 355 in steps of 5;
 JAM72D10-xxx/BP/1500V, JAM72D10-xxx/BP, xxx= 385 to 415 in steps of 5;
 JAM60D10-xxx/BP/1500V, JAM60D10-xxx/BP, xxx= 320 to 345 in steps of 5;
 JAM66D10-xxx/MB/1500V, JAM66D10-xxx/MB, xxx= 360 to 380 in steps of 5;
 JAM78D10-xxx/MB/1500V, JAM78D10-xxx/MB, xxx= 435 to 455 in steps of 5;
 JAM72D20-xxx/MB/1500V, JAM72D20-xxx/MB, xxx= 430 to 465 in steps of 5;
 JAM60D20-xxx/MB/1500V, JAM60D20-xxx/MB, xxx= 355 to 385 in steps of 5;
 JAM72D10-xxx/TB/1500V, JAM72D10-xxx/TB, xxx= 400 to 420 in steps of 5;
 JAM60D10-xxx/TB/1500V, JAM60D10-xxx/TB, xxx= 335 to 350 in steps of 5;
 JAM78D30-xxx/MB/1500V, JAM78D30-xxx/MB, xxx= 580 to 605 in steps of 5;
 JAM72D30-xxx/MB/1500V, JAM72D30-xxx/MB, xxx=505 to 555 in steps of 5;
 JAM72D30-xxx/MB/F/1500V, JAM72D30-xxx/MB/F,
 xxx=505 to 555 in steps of 5;
 JAM66D30-xxx/MB/1500V, JAM66D30-xxx/MB, xxx=465 to 505 in steps of 5;
 JAM66D30-xxx/MB/F/1500V, JAM66D30-xxx/MB/F,
 xxx=465 to 505 in steps of 5;
 JAM60D30-xxx/MB/1500V, JAM60D30-xxx/MB, xxx=435 to 460 in steps of 5;
 JAM54D30-xxx/MB/1500V, JAM54D30-xxx/MB, xxx= 390 to 415 in steps of 5;
 JAM54D31-xxx/MB/1500V, JAM54D31-xxx/MB, xxx= 395 to 400 in steps of 5;
 JAM50D40-xxx/MB/1500V, JAM50D40-xxx/MB, xxx= 485 to 500 in steps of 5;
 JAM78D30-xxx/GB/1500V, JAM78D30-xxx/GB, xxx= 585 to 610 in steps of 5;
 JAM72D30-xxx/GB/1500V, JAM72D30-xxx/GB, xxx= 540 to 560 in steps of 5;
 JAM66D30-xxx/GB/1500V, JAM66D30-xxx/GB, xxx= 495 to 510 in steps of 5;
 JAM60D30-xxx/GB/1500V, JAM60D30-xxx/GB, xxx= 450 to 470 in steps of 5;
 JAM54D30-xxx/GB/1500V, JAM54D30-xxx/GB, xxx= 405 to 420 in steps of 5;
 JAM54D31-xxx/GB/1500V, JAM54D31-xxx/GB, xxx= 410 to 420 in steps of 5;
 JAM72D30-xxx/HB/1500V, JAM72D30-xxx/HB, xxx= 530 to 560 in steps of 5;
 JAM78D40-xxx/MB/1500V, JAM78D40-xxx/MB, xxx= 580 to 630 in steps of 5;
 JAM72D40-xxx/MB/1500V, JAM72D40-xxx/MB, xxx= 540 to 585 in steps of 5;
 JAM66D40-xxx/MB/1500V, JAM66D40-xxx/MB, xxx= 500 to 535 in steps of 5;
 JAM60D40-xxx/MB/1500V, JAM60D40-xxx/MB, xxx= 455 to 485 in steps of 5;
 JAM54D40-xxx/MB/1500V, JAM54D40-xxx/MB, xxx= 405 to 440 in steps of 5;
 JAM78D40-xxx/GB/1500V, JAM78D40-xxx/GB, xxx= 580 to 635 in steps of 5;
 JAM72D40-xxx/GB/1500V, JAM72D40-xxx/GB, xxx= 540 to 585 in steps of 5;
 JAM66D40-xxx/GB/1500V, JAM66D40-xxx/GB, xxx= 500 to 535 in steps of 5;
 JAM60D40-xxx/GB/1500V, JAM60D40-xxx/GB, xxx= 455 to 485 in steps of 5;
 JAM54D40-xxx/GB/1500V, JAM54D40-xxx/GB, xxx= 405 to 440 in steps of 5;
 JAM54D41-xxx/GB/1500V, JAM54D41-xxx/GB, xxx= 415 to 435 in steps of 5;
 JAM66D35-xxx/MB/1500V, JAM66D35-xxx/MB, xxx= 650 to 665 in steps of 5;
 JAM60D35-xxx/MB/1500V, JAM60D35-xxx/MB, xxx= 590 to 605 in steps of 5;
 JAM72D30-xxx /TB/1500V, JAM72D30-xxx /TB, xxx= 540 to 580 in steps of 5;
 JAM72D40-xxx/LB/1500V, JAM72D40-xxx/LB, xxx= 575 to 600 in steps of 5;
 JAM54D40-xxx/LB/1500V, JAM54D40-xxx/LB, xxx= 420 to 450 in steps of 5;
 JAM54D41-xxx/LB/1500V, JAM54D41-xxx/LB, xxx= 420 to 440 in steps of 5;
 JAM72D42-xxx/LB/1500V, JAM72D42-xxx/LB, xxx= 605 to 630 in steps of 5;
 JAM54D42-xxx/LB/1500V, JAM54D42-xxx/LB, xxx= 455 to 470 in steps of 5;
 JAM72D30-xxx/LB/1500V, JAM72D30-xxx/LB, xxx= 555 to 575 in steps of 5;
 JAM54D30-xxx/LB/1500V, JAM54D30-xxx/LB, xxx= 420 to 430 in steps of 5;
 JAM66D45-xxx/LB/1500V, JAM66D45-xxx/LB, xxx= 585 to 605 in steps of 5;

1000 V DC Maximum System Voltage, Single Glass Modules:

JAM6(K)-72-xxx/PR, xxx= 345 to 370 in steps of 5;
 JAM6(K)-60-xxx/PR, xxx= 285 to 310 in steps of 5;
 JAM6(K)-72-xxx/4BB, xxx= 320 to 345 in steps of 5;
 JAM6(K)-60-xxx/4BB, xxx= 265 to 285 in steps of 5;
 JAM72S01-xxx/SC/1000V, xxx= 320 to 365 in steps of 5;
 JAM60S01-xxx/SC/1000V, xxx= 265 to 305 in steps of 5;
 JAM72S01-xxx/PR/1000V, xxx= 345 to 390 in steps of 5;
 JAM60S01-xxx/PR/1000V, xxx= 285 to 325 in steps of 5;
 JAM72S01-xxx/MR/1000V, xxx= 365 to 385 in steps of 5;

CERTIFICATE

No. Z2 072092 0295 Rev. 63

JAM60S01-xxx/MR/1000V, xxx= 305 to 320 in steps of 5;
JAM72S03-xxx/PR/1000V, xxx= 360 to 395 in steps of 5;
JAM60S03-xxx/PR/1000V, xxx= 300 to 330 in steps of 5;
JAM72S09-xxx/PR/1000V, xxx= 370 to 405 in steps of 5;
JAM60S09-xxx/PR/1000V, xxx= 310 to 335 in steps of 5;
JAM72S10-xxx/PR/1000V, xxx= 380 to 410 in steps of 5;
JAM60S10-xxx/PR/1000V, xxx= 315 to 345 in steps of 5;
JAM72S10-xxx/MR/1000V, xxx= 390 to 430 in steps of 5;
JAM60S10-xxx/MR/1000V, xxx= 325 to 355 in steps of 5;
JAM60S10-xxx/MR-L/1000V, xxx= 325 to 355 in steps of 5;
JAM78S10-xxx/MR/1000V, xxx= 435 to 465 in steps of 5;
JAM66S10-xxx/MR/1000V, xxx= 345 to 390 in steps of 5;
JAM72S09-xxx/BP/1000V, xxx= 375 to 385 in steps of 5;
JAM60S09-xxx/BP/1000V, xxx= 315 to 320 in steps of 5;
JAM72S10-xxx/BP/1000V, xxx= 385 to 400 in steps of 5;
JAM60S10-xxx/BP/1000V, xxx= 320 to 330 in steps of 5;
JAM72S02-xxx/PR/1000V, xxx= 345 to 390 in steps of 5;
JAM60S02-xxx/PR/1000V, xxx= 285 to 325 in steps of 5;
JAM72S02-xxx/SC/1000V, xxx= 320 to 365 in steps of 5;
JAM60S02-xxx/SC/1000V, xxx= 265 to 305 in steps of 5;
JAM72S02-xxx/MR/1000V, xxx= 365 to 385 in steps of 5;
JAM60S02-xxx/MR/1000V, xxx= 305 to 320 in steps of 5;
JAM72S08-xxx/PR/1000V, xxx= 360 to 395 in steps of 5;
JAM60S08-xxx/PR/1000V, xxx= 300 to 330 in steps of 5;
JAM72S12-xxx/PR/1000V, xxx= 365 to 385 in steps of 5;
JAM60S12-xxx/PR/1000V, xxx= 305 to 330 in steps of 5;
JAM72S17-xxx/PR/1000V, xxx= 380 to 390 in steps of 5;
JAM60S17-xxx/PR/1000V, xxx= 315 to 325 in steps of 5;
JAM72S17-xxx/MR/1000V, xxx= 390 to 430 in steps of 5;
JAM60S17-xxx/MR/1000V, xxx= 315 to 355 in steps of 5;
JAM72S10-xxx/MB/1000V, xxx= 395 to 415 in steps of 5;
JAM60S10-xxx/MB/1000V, xxx= 330 to 345 in steps of 5;
JAM72S20-xxx/MR/1000V, xxx= 430 to 470 in steps of 5;
JAM60S20-xxx/MR/1000V, xxx= 355 to 390 in steps of 5;
JAM78S30-xxx/MR/1000V, xxx= 580 to 605 in steps of 5;
JAM72S30-xxx/MR/1000V, xxx=510 to 555 in steps of 5;
JAM66S30-xxx/MR/1000V, xxx=470 to 505 in steps of 5;
JAM60S30-xxx/MR/1000V, xxx=435 to 460 in steps of 5;
JAM54S30-xxx/MR/1000V, xxx= 390 to 425 in steps of 5;
JAM60S21-xxx/MR/1000V, xxx= 355 to 390 in steps of 5;
JAM50S40-xxx/MR/1000V, xxx= 490 to 500 in steps of 5;
JAM72S20-xxx/MB/1000V, xxx= 450 to 465 in steps of 5;
JAM60S20-xxx/MB/1000V, xxx= 375 to 390 in steps of 5;
JAM72S31-xxx/MR/1000V, xxx= 510 to 545 in steps of 5;
JAM66S31-xxx/MR/1000V, xxx= 470 to 500 in steps of 5;
JAM60S31-xxx/MR/1000V, xxx= 425 to 450 in steps of 5;
JAM54S31-xxx/MR/1000V, xxx= 385 to 405 in steps of 5;
JAM76S11-xxx/PR(B)/1000V, xxx= 395 to 415 in steps of 5;
JAM78S30-xxx/GR/1000V, xxx= 575 to 610 in steps of 5;
JAM72S30-xxx/GR/1000V, xxx= 535 to 560 in steps of 5;
JAM66S30-xxx/GR/1000V, xxx= 500 to 510 in steps of 5;
JAM60S30-xxx/GR/1000V, xxx= 445 to 470 in steps of 5;
JAM54S30-xxx/GR/1000V, xxx= 400 to 420 in steps of 5;
JAM78S31-xxx/GR/1000V, xxx= 570 to 590 in steps of 5;
JAM72S31-xxx/GR/1000V, xxx= 525 to 545 in steps of 5;
JAM66S31-xxx/GR/1000V, xxx= 480 to 500 in steps of 5;
JAM60S31-xxx/GR/1000V, xxx= 430 to 450 in steps of 5;
JAM54S31-xxx/GR/1000V, xxx= 395 to 415 in steps of 5;
JAM72S17-xxx/GR/1000V, xxx= 385 to 400 in steps of 5;
JAM72S40-xxx/GR/1000V, xxx= 540 to 575 in steps of 5;
JAM66S40-xxx/GR/1000V, xxx= 495 to 525 in steps of 5;
JAM60S40-xxx/GR/1000V, xxx= 450 to 480 in steps of 5;
JAM54S40-xxx/GR/1000V, xxx= 405 to 430 in steps of 5;
JAM72S41-xxx/GR/1000V, xxx= 540 to 570 in steps of 5;
JAM66S41-xxx/GR/1000V, xxx= 495 to 525 in steps of 5;
JAM60S41-xxx/GR/1000V, xxx= 450 to 475 in steps of 5;
JAM54S41-xxx/GR/1000V, xxx= 405 to 430 in steps of 5;
JAM66S35-xxx/MR/1000V, xxx= 650 to 670 in steps of 5;
JAM60S35-xxx/MR/1000V, xxx= 590 to 610 in steps of 5;
JAM72S30-xxx/LR/1000V, xxx= 555 to 580 in steps of 5;

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JAM54S30-xxx/LR/1000V, xxx= 415 to 435 in steps of 5;
JAM54S31-xxx/LR/1000V, xxx= 415 to 420 in steps of 5;

1000 V DC or 1500 V DC Maximum System Voltage,
Single Glass Modules:

JAM72S01-xxx/SC, xxx= 320 to 365 in steps of 5;
JAM60S01-xxx/SC, xxx= 265 to 305 in steps of 5;
JAM60S01-xxx/PR, xxx= 285 to 325 in steps of 5;
JAM72S01-xxx/MR, xxx= 365 to 385 in steps of 5;
JAM60S01-xxx/MR, xxx= 305 to 320 in steps of 5;
JAM72S03-xxx/PR, xxx= 360 to 395 in steps of 5;
JAM60S03-xxx/PR, xxx= 300 to 330 in steps of 5;
JAM72S09-xxx/PR, xxx= 370 to 405 in steps of 5;
JAM60S09-xxx/PR, xxx= 310 to 335 in steps of 5;
JAM72S10-xxx/PR, xxx= 380 to 410 in steps of 5;
JAM60S10-xxx/PR, xxx= 315 to 345 in steps of 5;
JAM72S10-xxx/MR, xxx= 390 to 430 in steps of 5;
JAM60S10-xxx/MR, xxx= 325 to 355 in steps of 5;
JAM60S10-xxx/MR-L, xxx= 325 to 355 in steps of 5;
JAM78S10-xxx/MR, xxx= 435 to 465 in steps of 5;
JAM66S10-xxx/MR, xxx= 345 to 390 in steps of 5;
JAM72S09-xxx/BP, xxx= 375 to 385 in steps of 5;
JAM60S09-xxx/BP, xxx= 315 to 320 in steps of 5;
JAM72S10-xxx/BP, xxx= 385 to 400 in steps of 5;
JAM60S10-xxx/BP, xxx= 320 to 330 in steps of 5;
JAM72S02-xxx/PR, xxx= 345 to 390 in steps of 5;
JAM60S02-xxx/PR, xxx= 285 to 325 in steps of 5;
JAM72S02-xxx/SC, xxx= 320 to 365 in steps of 5;
JAM60S02-xxx/SC, xxx= 265 to 305 in steps of 5;
JAM72S02-xxx/MR, xxx= 365 to 385 in steps of 5;
JAM60S02-xxx/MR, xxx= 305 to 320 in steps of 5;
JAM72S08-xxx/PR, xxx= 360 to 395 in steps of 5;
JAM60S08-xxx/PR, xxx= 300 to 330 in steps of 5;
JAM72S12-xxx/PR, xxx= 365 to 385 in steps of 5;
JAM60S12-xxx/PR, xxx= 305 to 330 in steps of 5;
JAM72S17-xxx/PR, xxx= 380 to 390 in steps of 5;
JAM60S17-xxx/PR, xxx= 315 to 325 in steps of 5;
JAM72S17-xxx/MR, xxx= 390 to 430 in steps of 5;
JAM60S17-xxx/MR, xxx= 315 to 355 in steps of 5;
JAM72S10-xxx/MB, xxx= 395 to 415 in steps of 5;
JAM60S10-xxx/MB, xxx= 330 to 345 in steps of 5;
JAM72S20-xxx/MR, xxx= 430 to 470 in steps of 5;
JAM60S20-xxx/MR, xxx= 355 to 390 in steps of 5;
JAM78S10-xxx/MR-J, xxx= 435 to 465 in steps of 5;
JAM78S30-xxx/MR, xxx= 580 to 605 in steps of 5;
JAM72S30-xxx/MR, xxx= 510 to 555 in steps of 5;
JAM66S30-xxx/MR, xxx= 470 to 505 in steps of 5;
JAM60S30-xxx/MR, xxx= 435 to 460 in steps of 5;
JAM54S30-xxx/MR, xxx= 390 to 425 in steps of 5;
JAM60S21-xxx/MR, xxx= 355 to 390 in steps of 5;
JAM50S40-xxx/MR, xxx= 490 to 500 in steps of 5;
JAM72S20-xxx/MB, xxx= 450 to 465 in steps of 5;
JAM60S20-xxx/MB, xxx= 375 to 390 in steps of 5;
JAM68S11-xxx/PR, xxx= 355 to 365 in steps of 5;
JAM68S11-xxx/PR(B), xxx= 345 to 365 in steps of 5;
JAM72S31-xxx/MR, xxx= 510 to 545 in steps of 5;
JAM66S31-xxx/MR, xxx= 470 to 500 in steps of 5;
JAM60S31-xxx/MR, xxx= 425 to 450 in steps of 5;
JAM54S31-xxx/MR, xxx= 385 to 405 in steps of 5;
JAM76S11-xxx/PR(B), xxx= 395 to 415 in steps of 5;
JAM78S30-xxx/GR, xxx= 575 to 610 in steps of 5;
JAM72S30-xxx/GR, xxx= 535 to 560 in steps of 5;
JAM66S30-xxx/GR, xxx= 500 to 510 in steps of 5;
JAM60S30-xxx/GR, xxx= 445 to 470 in steps of 5;
JAM54S30-xxx/GR, xxx= 400 to 420 in steps of 5;
JAM78S31-xxx/GR, xxx= 570 to 590 in steps of 5;
JAM72S31-xxx/GR, xxx= 525 to 545 in steps of 5;
JAM66S31-xxx/GR, xxx= 480 to 500 in steps of 5;
JAM60S31-xxx/GR, xxx= 435 to 450 in steps of 5;
JAM54S31-xxx/GR, xxx= 395 to 415 in steps of 5;

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JAM72S17-xxx/GR, xxx= 385 to 400 in steps of 5;
JAM72S40-xxx/GR, xxx= 540 to 575 in steps of 5;
JAM66S40-xxx/GR, xxx= 495 to 525 in steps of 5;
JAM60S40-xxx/GR, xxx= 450 to 480 in steps of 5;
JAM54S40-xxx/GR, xxx= 405 to 430 in steps of 5;
JAM72S41-xxx/GR, xxx= 540 to 570 in steps of 5;
JAM66S41-xxx/GR, xxx= 495 to 525 in steps of 5;
JAM60S41-xxx/GR, xxx= 450 to 475 in steps of 5;
JAM54S41-xxx/GR, xxx= 405 to 430 in steps of 5;
JAM66S35-xxx/MR, xxx= 650 to 670 in steps of 5;
JAM60S35-xxx/MR, xxx= 590 to 610 in steps of 5;
JAM72S30-xxx/LR, xxx= 555 to 580 in steps of 5;
JAM54S30-xxx/LR, xxx= 415 to 435 in steps of 5;
JAM54S31-xxx/LR, xxx= 415 to 420 in steps of 5;

1500 V DC Maximum System Voltage, Single Glass Modules:

JAM6(K)-72-xxx/PR/1500V, xxx= 345 to 370 in steps of 5;
JAM6(K)-60-xxx/PR/1500V, xxx= 285 to 310 in steps of 5;
JAM6(K)-72-xxx/4BB/1500V, xxx= 320 to 345 in steps of 5;
JAM6(K)-60-xxx/4BB/1500V, xxx= 265 to 285 in steps of 5;
JAM72S01-xxx/SC/1500V, xxx= 320 to 365 in steps of 5;
JAM60S01-xxx/SC/1500V, xxx= 265 to 305 in steps of 5;
JAM72S01-xxx/PR, xxx= 345 to 390 in steps of 5;
JAM60S01-xxx/PR/1500V, xxx= 285 to 325 in steps of 5;
JAM72S01-xxx/MR/1500V, xxx= 365 to 385 in steps of 5;
JAM60S01-xxx/MR/1500V, xxx= 305 to 320 in steps of 5;
JAM72S03-xxx/PR/1500V, xxx= 360 to 395 in steps of 5;
JAM60S03-xxx/PR/1500V, xxx= 300 to 330 in steps of 5;
JAM72S09-xxx/PR/1500V, xxx= 370 to 405 in steps of 5;
JAM60S09-xxx/PR/1500V, xxx= 310 to 335 in steps of 5;
JAM72S10-xxx/PR/1500V, xxx= 380 to 410 in steps of 5;
JAM60S10-xxx/PR/1500V, xxx= 315 to 345 in steps of 5;
JAM72S10-xxx/MR/1500V, xxx= 390 to 430 in steps of 5;
JAM60S10-xxx/MR/1500V, xxx= 325 to 355 in steps of 5;
JAM60S10-xxx/MR-L/1500V, xxx= 325 to 355 in steps of 5;
JAM78S10-xxx/MR/1500V, xxx= 435 to 465 in steps of 5;
JAM66S10-xxx/MR/1500V, xxx= 345 to 390 in steps of 5;
JAM72S09-xxx/BP/1500V, xxx= 375 to 385 in steps of 5;
JAM60S09-xxx/BP/1500V, xxx= 315 to 320 in steps of 5;
JAM72S10-xxx/BP/1500V, xxx= 385 to 400 in steps of 5;
JAM60S10-xxx/BP/1500V, xxx= 320 to 330 in steps of 5;
JAM72S02-xxx/PR/1500V, xxx= 345 to 390 in steps of 5;
JAM60S02-xxx/PR/1500V, xxx= 285 to 325 in steps of 5;
JAM72S02-xxx/SC/1500V, xxx= 320 to 365 in steps of 5;
JAM60S02-xxx/SC/1500V, xxx= 265 to 305 in steps of 5;
JAM72S02-xxx/MR/1500V, xxx= 365 to 385 in steps of 5;
JAM60S02-xxx/MR/1500V, xxx= 305 to 320 in steps of 5;
JAM72S08-xxx/PR/1500V, xxx= 360 to 395 in steps of 5;
JAM60S08-xxx/PR/1500V, xxx= 300 to 330 in steps of 5;
JAM72S12-xxx/PR/1500V, xxx= 365 to 385 in steps of 5;
JAM60S12-xxx/PR/1500V, xxx= 305 to 330 in steps of 5;
JAM72S17-xxx/PR/1500V, xxx= 380 to 390 in steps of 5;
JAM60S17-xxx/PR/1500V, xxx= 315 to 325 in steps of 5;
JAM72S17-xxx/MR/1500V, xxx= 390 to 430 in steps of 5;
JAM60S17-xxx/MR/1500V, xxx= 315 to 355 in steps of 5;
JAM72S10-xxx/MB/1500V, xxx= 395 to 415 in steps of 5;
JAM60S10-xxx/MB/1500V, xxx= 330 to 345 in steps of 5;
JAM72S20-xxx/MR/1500V, xxx= 430 to 470 in steps of 5;
JAM60S20-xxx/MR/1500V, xxx= 355 to 390 in steps of 5;
JAM78S30-xxx/MR/1500V, xxx= 580 to 605 in steps of 5;
JAM72S30-xxx/MR/1500V, xxx= 510 to 555 in steps of 5;
JAM66S30-xxx/MR/1500V, xxx= 470 to 505 in steps of 5;
JAM60S30-xxx/MR/1500V, xxx= 435 to 460 in steps of 5;
JAM54S30-xxx/MR/1500V, xxx= 390 to 425 in steps of 5;
JAM60S21-xxx/MR/1500V, xxx= 355 to 390 in steps of 5;
JAM50S40-xxx/MR/1500V, xxx= 490 to 500 in steps of 5;
JAM72S20-xxx/MB/1500V, xxx= 450 to 465 in steps of 5;
JAM60S20-xxx/MB/1500V, xxx= 375 to 390 in steps of 5;
JAM72S31-xxx/MR/1500V, xxx= 510 to 545 in steps of 5;
JAM66S31-xxx/MR/1500V, xxx= 470 to 500 in steps of 5;

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JAM60S31-xxx/MR/1500V, xxx= 425 to 450 in steps of 5;
JAM54S31-xxx/MR/1500V, xxx= 385 to 405 in steps of 5;
JAM76S11-xxx/PR(B)/1500V, xxx= 395 to 415 in steps of 5;
JAM78S30-xxx/GR/1500V, xxx= 575 to 610 in steps of 5;
JAM72S30-xxx/GR/1500V, xxx= 535 to 560 in steps of 5;
JAM66S30-xxx/GR/1500V, xxx= 500 to 510 in steps of 5;
JAM60S30-xxx/GR/1500V, xxx= 445 to 470 in steps of 5;
JAM54S30-xxx/GR/1500V, xxx= 400 to 420 in steps of 5;
JAM78S31-xxx/GR/1500V, xxx= 570 to 590 in steps of 5;
JAM72S31-xxx/GR/1500V, xxx= 525 to 545 in steps of 5;
JAM66S31-xxx/GR/1500V, xxx= 480 to 500 in steps of 5;
JAM60S31-xxx/GR/1500V, xxx= 435 to 450 in steps of 5;
JAM54S31-xxx/GR/1500V, xxx= 395 to 415 in steps of 5;
JAM72S17-xxx/GR/1500V, xxx= 385 to 400 in steps of 5;
JAM72S40-xxx/GR/1500V, xxx= 540 to 575 in steps of 5;
JAM66S40-xxx/GR/1500V, xxx= 495 to 525 in steps of 5;
JAM60S40-xxx/GR/1500V, xxx= 450 to 480 in steps of 5;
JAM54S40-xxx/GR/1500V, xxx= 405 to 430 in steps of 5;
JAM72S41-xxx/GR/1500V, xxx= 540 to 570 in steps of 5;
JAM66S41-xxx/GR/1500V, xxx= 495 to 525 in steps of 5;
JAM60S41-xxx/GR/1500V, xxx= 450 to 475 in steps of 5;
JAM54S41-xxx/GR/1500V, xxx= 405 to 430 in steps of 5;
JAM66S35-xxx/MR/1500V, xxx= 650 to 670 in steps of 5;
JAM60S35-xxx/MR/1500V, xxx= 590 to 610 in steps of 5;
JAM72S30-xxx/LR/1500V, xxx= 555 to 580 in steps of 5;
JAM54S30-xxx/LR/1500V, xxx= 415 to 435 in steps of 5;
JAM54S31-xxx/LR/1500V, xxx= 415 to 420 in steps of 5;
xxx is standing for rated output power at STC

Parameters:

Construction:	Framed or Frameless, with Junction box, Cable and Connectors.
Test Laboratory:	Yangzhou Opto-Electrical Products Testing Institute No. 10 West Kaifa Road, Yangzhou 225009 Jiangsu, P. R. China
Safety Class:	Class II
Maximum System Voltage:	1500 V DC or 1000 V DC
Fire Safety Class:	Class C according to UL790.
Production Facility(ies):	079395, 095903, 090968, 108746, 072092, 109998, 112017, 113943, 114922, 001783, 004170, 113691, 117043, 119123, 120210, 117684, 114994, 120736, 115500, 120016, 108093, 121678.

Tested according to:

IEC 61215-1:2016
IEC 61215-1-1:2016
IEC 61215-2:2016
IEC 61730-1:2016
IEC 61730-2:2016
EN IEC 61730-1:2018
EN IEC 61730-1:2018/AC:2018-06
EN IEC 61730-2:2018
EN IEC 61730-2:2018/AC:2018-06