

# CERTIFICATE of Conformity



Registration No.: A3 50562506 0001

Report No.: CN222QI8 002

**Holder:** SolaX Power Network Technology  
(Zhe jiang) Co., Ltd.  
No.288 Shizhu Road  
Tonglu Economic Development Zone  
Tonglu City,  
Zhejiang Province 310000  
P.R. China

**Product:** PV-Inverter  
Grid-Connected PV Inverter

**Identification:**

Type Designation	: X3-FTH-xK-LV (x=40, 50, 60, 70) X3-FTH-yK (y=80, 100, 110, 120, 125) X3-FTH-zK-MV (z=136, 150)
Serial Number	: Engineering Samples
Firmware version	: XFORTH V005.00
Remark(s)	: Refer to test report CN222QI8 002 for details.

**Tested acc. to:** NTS Version 2.1  
UNE 217001:2020

The certificate of conformity refers to the above mentioned product. This is to certify that the specimen is in conformity with the assessment requirement mentioned above. This certificate does not imply assessment of the production of the product and does not permit the use of a TÜV Rheinland mark of conformity.

Durch die DAKKS nach  
DIN EN ISO/IEC 17065:2013  
akkreditierte Zertifizierungsstelle.  
Die Akkreditierung gilt nur für den in der  
Urkundenanlage D-ZE-14169-01-02  
aufgeführten Akkreditierungsumfang.

Certification Body

Date 25.10.2022

  
Weichun Li

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg



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**Tested acc. to:** NTS Version 2.1  
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Date 25.10.2022

  
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# CERTIFICADO

## de conformidad

**Anexo a**

*Attachment to*

**No. de registro:** AK 50562377 0001-0002  
*Registration No.*

**No. de informe:** CN222QI8 001  
*Report No.*

**Titular de licencia:** SolaX Power Network Technology (Zhe Jiang) Co., Ltd.  
*License Holder* No. 288 Shizhu Road, Tonglu Economic Development Zone, Tonglu City, Hangzhou, Zhejiang Province 310000, P.R. China

**Tipo de producción:** Inversor fotovoltaico conectado a la red  
*Type of production*

**Modelo:** X3-FTH-xxK-LV (xx=40, 50, 60, 70)  
*Model* X3-FTH-yyK (yy=80, 100, 110, 120, 125)  
X3-FTH-zzK-MV (zz=136, 150)

**Versión de firmware:** XFORTH V005.00  
*Firmware version*

**Estándar:** RD647 : 2020  
*Standards* RD661:2007  
RD413:2014  
UNE 217002:2020

**Fecha de emisión:** 21.10.2022  
*Date of issue*

El certificado de conformidad hace referencia al producto mencionado anteriormente. Esto es para certificar que la muestra se encuentra en conformidad con el requisito de evaluación mencionado anteriormente. Este certificado no implica una evaluación de la producción del producto y no permite el uso de una marca de conformidad TÜV Rheinland.

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<b>Información del inversor</b> Inverter information				
<b>Modelo</b> Model	X3-FTH-40K-LV	X3-FTH-50K-LV	X3-FTH-60K-LV	X3-FTH-70K-LV
<b>Potencia nominal CA</b> Nominal AC Power	40000 W	50000 W	60000 W	70000 W
<b>Tensión nominal CA</b> Nominal AC voltage	127 / 220 Va.c.			
<b>Corriente máxima CA</b> Maximal AC current	115.5 A	144.5 A	173.5 A	183.7 A
<b>Frecuencia nominal</b> Nominal frequency	50 Hz			
<b>Rango de tensión MPPT</b> MPPT voltage range	180-650 Vd.c.			
<b>Tensión CC máxima</b> Max. DC voltage	800 Vd.c.			
<b>Corriente DC máxima</b> Max. DC current	6*32 A		9*32 A	
<b>Elemento de control</b> Control device	Controller in Inverter			
<b>Tipo de dispositivo de control</b> Type of control device	Integrated			
<b>Información del inversor</b> Inverter information				
<b>Modelo</b> Model	X3-FTH-80K	X3-FTH-100K	X3-FTH-110K	X3-FTH-120K
<b>Potencia nominal CA</b> Nominal AC Power	80000 W	100000 W	110000 W	120000 W
<b>Tensión nominal CA</b> Nominal AC voltage	230/400 Va.c.			
<b>Corriente máxima CA</b> Maximal AC current	127.6 A	159.5 A	175.4 A	191.3 A
<b>Frecuencia nominal</b> Nominal frequency	50 Hz			
<b>Rango de tensión MPPT</b> MPPT voltage range	180-1000 Vd.c.			
<b>Tensión CC máxima</b> Max. DC voltage	1100 Vd.c.			
<b>Corriente DC máxima</b> Max. DC current	9*32 A			12*32 A
<b>Elemento de control</b> Control device	Controller in Inverter			
<b>Tipo de dispositivo de control</b> Type of control device	Integrated			
<b>Información del inversor</b> Inverter information				
<b>Modelo</b> Model	X3-FTH-125K		X3-FTH-136K-MV	X3-FTH-150K-MV
<b>Potencia nominal CA</b> Nominal AC Power	125000 W		136000 W	150000 W
<b>Tensión nominal CA</b> Nominal AC voltage	230/400 Va.c.		500/540 Va.c.	
<b>Corriente máxima CA</b> Maximal AC current	191.3 A		172.8/160 A	190.6/176.5 A
<b>Frecuencia nominal</b> Nominal frequency	50 Hz			
<b>Rango de tensión MPPT</b> MPPT voltage range	180-1000 Vd.c.			
<b>Tensión CC máxima</b> Max. DC voltage	1100 Vd.c.			
<b>Corriente DC máxima</b> Max. DC current	12*32 A			
<b>Elemento de control</b> Control device	Controller in Inverter			
<b>Tipo de dispositivo de control</b> Type of control device	Integrated			

<b>Información general del transductor de corriente externo / medidor de potencia <sup>*)</sup></b> <i>General information of external current transductor/ power meter</i>	
<b>Fabricante</b> <i>Manufacturer</i>	Zhejiang Chint Instrument & Meter Co., Ltd
<b>Modelo</b> <i>Model</i>	DTSU666
<b>Aplicación</b> <i>Application</i>	3 Phase
<b>Tensión nominal</b> <i>Nominal voltage</i>	230 Vac
<b>Corriente máxima</b> <i>Max. current</i>	80A
<b>Clase de precisión</b> <i>Class of accuracy</i>	Active energy EN 50470-3:Class B
<b>Tipo de comunicación</b> <i>Type of communication</i>	RS485
<b>Esquema básico del sistema <sup>*)</sup></b> <i>Basic system diagram</i>	
<p>The diagram illustrates the basic system configuration. A PV array is connected to a DC Distribution Box, which is then connected to an X3-FORTH series Inverter. The inverter's output is connected to an AC Distribution Box. This AC Distribution Box is connected to Household Distribution Units, which are connected to a Load. Additionally, the AC Distribution Box is connected to a Solax three phase meter, which is connected to the Electrical grid.</p>	

**\*) Para cumplir los requisitos de RD 244/2019, ANEXO I y UNE 217001: 2020, se instalará el dispositivo adicional.**  
*To fulfill the requirements of RD 244/2019, ANEXO I and UNE 217001: 2020, the additional device shall be installed.*



Certificado no.: A3 50562506 0001

# Certificado De Conformidad

**Fabricante:** SolaX Power Network Technology (Zhe Jiang) Co., Ltd.  
*Manufacturer:*

**Tipo de producto:** Grid-Connected PV Inverter  
*Type of product:*

**Modelo:** X3-FTH-xK-LV (x=40, 50, 60, 70)  
*Model:* X3-FTH-yK (y=80, 100, 110, 120, 125)  
X3-FTH-zK-MV (z=136, 150)

**Versión de firmware:** XFORTH V005.00  
*Firmware version:*

**Estándar:** NTS Version 2.1  
*Standard:* Norma técnica de supervisión de la conformidad de los módulos de generación de electricidad según el Reglamento UE 2016/631  
NTS Version 2.1-Correction 1.0  
Corrección de errores de la versión 2.1 (del 9/7/2021) de la Norma Técnica de Supervisión de la Conformidad de los Módulos de Generación de Electricidad según el Reglamento UE 2016/631  
UNE 217001:2020  
Ensayos para sistemas que eviten el vertido de energía a la red de distribución

**Reporte no.:** CN222QI8 002  
*Report No.:*

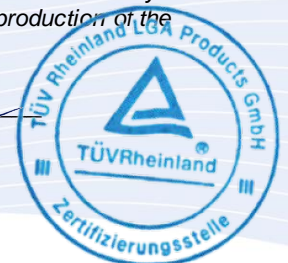
**Fecha de emisión:** 25.10.2022  
*Date of issue:*

El certificado de conformidad hace referencia al producto mencionado anteriormente. Esto es para certificar que la muestra se encuentra en conformidad con el requisito de evaluación mencionado anteriormente. Este certificado no implica una evaluación de la producción del producto y no permite el uso de una marca de conformidad TÜV Rheinland.

*The verification of conformity refers to the above mentioned product. This is to verify that the specimen is in conformity with the assessment requirement mentioned above. This verification does not imply assessment of the production of the product and does not permit the use of a TÜV Rheinland mark of conformity.*



**Weichun Li**  
Certificador



**Apéndice**
*Appendix*

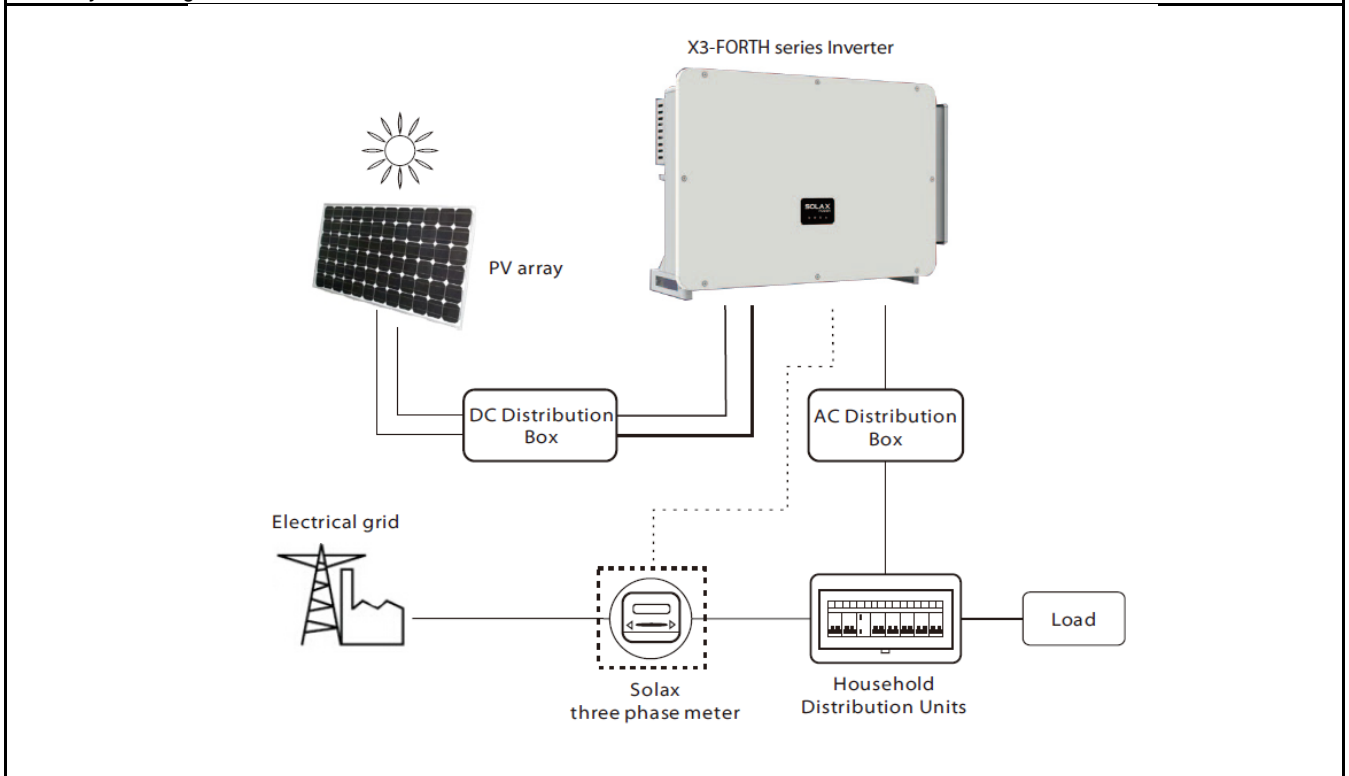
<b>Información del inversor</b> <i>Inverter information</i>				
<b>Modelo</b> <i>Model</i>	<b>X3-FTH-40K-LV</b>	<b>X3-FTH-50K-LV</b>	<b>X3-FTH-60K-LV</b>	<b>X3-FTH-70K-LV</b>
<b>Potencia nominal CA</b> <i>Nominal AC Power</i>	40 kW	50 kW	60 kW	70 kW
<b>Tensión nominal CA</b> <i>Nominal AC voltage</i>	127/220 V			
<b>Corriente máxima CA</b> <i>Maximal AC current</i>	115.5 A	144.5 A	173.5 A	183.7 A
<b>Frecuencia nominal</b> <i>Nominal frequency</i>	50/60 Hz			
<b>Rango de tensión MPPT</b> <i>MPPT voltage range</i>	180-650 V			
<b>Tensión CC máxima</b> <i>Max. DC voltage</i>	800V			
<b>Corriente DC máxima</b> <i>Max. DC current</i>	6x32 A		9x32 A	
<b>Elemento de control</b> <i>Control device</i>	Controller in Inverter			
<b>Tipo de dispositivo de control</b> <i>Type of control device</i>	Integrated			

<b>Modelo</b> <i>Model</i>	<b>X3-FTH-80K</b>	<b>X3-FTH-100K</b>	<b>X3-FTH-110K</b>	<b>X3-FTH-120K</b>	<b>X3-FTH-125K</b>
<b>Potencia nominal CA</b> <i>Nominal AC Power</i>	80 kW	100 kW	110 kW	120 kW	125 kW
<b>Tensión nominal CA</b> <i>Nominal AC voltage</i>	230/400 V				
<b>Corriente máxima CA</b> <i>Maximal AC current</i>	127.6 A	159.5 A	175.4 A	191.3 A	191.3 A
<b>Frecuencia nominal</b> <i>Nominal frequency</i>	50/60 Hz				
<b>Rango de tensión MPPT</b> <i>MPPT voltage range</i>	180-1000 V				
<b>Tensión CC máxima</b> <i>Max. DC voltage</i>	1100 V				
<b>Corriente DC máxima</b> <i>Max. DC current</i>	9x32 A			12x32 A	
<b>Elemento de control</b> <i>Control device</i>	Controller in Inverter				
<b>Tipo de dispositivo de control</b> <i>Type of control device</i>	Integrated				

<b>Modelo</b> <i>Model</i>	<b>X3-FTH-136K-MV</b>	<b>X3-FTH-150K-MV</b>
<b>Potencia nominal CA</b> <i>Nominal AC Power</i>	136 kW	150 kW
<b>Tensión nominal CA</b> <i>Nominal AC voltage</i>	500/540	
<b>Corriente máxima CA</b> <i>Maximal AC current</i>	172.8/160.0 A	190.6/176.5 A
<b>Frecuencia nominal</b> <i>Nominal frequency</i>	50/60 Hz	
<b>Rango de tensión MPPT</b> <i>MPPT voltage range</i>	180-1000 V	
<b>Tensión CC máxima</b> <i>Max. DC voltage</i>	1100V	
<b>Corriente DC máxima</b> <i>Max. DC current</i>	12x32 A	
<b>Elemento de control</b> <i>Control device</i>	Controller in Inverter	
<b>Tipo de dispositivo de control</b> <i>Type of control device</i>	Integrated	

<b>Información general del transductor de corriente externo / medidor de potencia <sup>*)</sup></b> <i>General information of external current transductor/ power meter</i>	
<b>Fabricante</b> <i>Manufacturer</i>	Zhejiang Chint Instrument & Meter Co., Ltd
<b>Modelo</b> <i>Model</i>	DTSU666
<b>Aplicación</b> <i>Application</i>	3 Phase
<b>Tensión nominal</b> <i>Nominal voltage</i>	230 Vac
<b>Corriente máxima</b> <i>Max. current</i>	80A
<b>Clase de precisión</b> <i>Class of accuracy</i>	Active energy EN 50470-3:ClassB
<b>Tipo de comunicación</b> <i>Type of communication</i>	RS485

**Esquema básico del sistema <sup>\*)</sup>**  
*Basic system diagram*



**\*) Para cumplir los requisitos de RD 244/2019, ANEXO I y UNE 217001 IN: 2020, se instalará el dispositivo adicional.**  
*To fulfill the requirements of RD 244/2019, ANEXO I and UNE 217001 IN: 2020, the additional device shall be installed.*



# CERTIFICATE of Conformity



Registration No.: AK 50562377 0001

Report No.: CN222QI8 001

**Holder:** SolaX Power Network Technology  
(Zhe jiang) Co., Ltd.  
No.288 Shizhu Road  
Tonglu Economic Development Zone  
Tonglu City,  
Zhejiang Province 310000  
P.R. China

**Product:** PV-Inverter  
(Grid-connected PV Inverter)

**Identification:** Type Designation : X3-FTH-xxK-LV (xx=40,50,60,70)  
X3-FTH-yyK (yy=80,100,110,120,125)  
X3-FTH-zzK-MV (zz=136,150)  
Serial Number : Engineering samples  
Continued on page 0002

**Tested acc. to:** RD 647:2020  
RD 661:2007  
RD 413:2014  
UNE 217002:2020

The certificate of conformity refers to the above mentioned product. This is to certify that the specimen is in conformity with the assessment requirement mentioned above. This certificate does not imply assessment of the production of the product and does not permit the use of a TÜV Rheinland mark of conformity.

Certification Body

Date 21.10.2022



Weichun Li

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# CERTIFICATE of Conformity



Registration No.: AK 50562377 0002

Report No.: CN222QI8 001

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(Zhe jiang) Co., Ltd.  
No.288 Shizhu Road  
Tonglu Economic Development Zone  
Tonglu City,  
Zhejiang Province 310000  
P.R. China

**Product:** PV-Inverter  
(Grid-connected PV Inverter)

**Identification:** as page 0001 continuation  
Firmware Version: XFORTH V005.00  
Remark : Compliance with the requirement of  
RD 244/2019, Annex I. Refer to test report  
CN222QI8 001 for details.

**Tested acc. to:** RD 647:2020  
RD 661:2007  
RD 413:2014  
UNE 217002:2020

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X3-FTH-yyK (yy=80,100,110,120,125)  
X3-FTH-zzK-MV (zz=136,150)  
Serial Number : Engineering samples  
Continued on page 0002

**Tested acc. to:** RD 647:2020  
RD 661:2007  
RD 413:2014  
UNE 217002:2020

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**Product:** PV-Inverter  
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**Identification:** as page 0001 continuation  
Firmware Version: XFORTH V005.00  
Remark : Compliance with the requirement of  
RD 244/2019, Annex I. Refer to test report  
CN222QI8 001 for details.

**Tested acc. to:** RD 647:2020  
RD 661:2007  
RD 413:2014  
UNE 217002:2020

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