

## **INGECON SUN STORAGE 1PLAY TL M**

### **LIST OF APPROVED LITHIUM-ION BATTERIES**

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## 1 INTRODUCTION

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The lithium-ion batteries of the following manufactures are approved for the Ingeteam Storage System with the INGECON SUN STORAGE 1PLAY TL M (Multi-string).



## 2 LIST OF APPROVED LITHIUM-ION BATTERIES

Manufacturer	Type	Minimum Firmware Version		Stand-Alone / UPS(Backup)	Self-Consumption
		Battery	Inverter	Comment	Comment
LG Chem <b>(Low Voltage)</b>	<b>RESU6.5</b> 6,5kWh, 48V, 66A max	---	ABH1007_D	See Note 1)	See Note 1)
	<b>RESU10</b> 10kWh, 48V, 66A max				
Freedom Won	<b>Lite Home 48V</b>	---	ABH1007_	See Note 1)	See Note 1)
	<b>Lite HV Series</b>	---	ABH1007_	✓	✓
BYD <b>(High Voltage)</b>	<b>B-BOX PREMIUM HVS</b>	BMU 3.15 BMS 3.22	ABH1007_D	✓	✓
	HVS 5.1 (5.12kWh, 204V)				
	HVS 7.7 (7.68kWh, 307V)				
	HVS 10.2 (10.24kWh, 409V)				
	<b>B-BOX PREMIUM HVM</b>				
	HVM 8.3 (8.28kWh, 153V)				
	HVM 11.0 (11.04kWh, 204V)				
	HVM 13.8.0 (13.8kWh, 256V)				
HVM 16.6 (16.56kWh, 307V)					
HVM 19.3 (19.32kWh, 358V)					
HVM 22.1 (22.08kWh, 409V)					
PYLONTECH <b>(Low Voltage)</b>	<b>US2000 / US2000C / US2000Plus</b>	---	ABH1007_D	See Note 1)	See Note 1)
	<b>US3000 / US3000C / UP5000 / US5000</b>				
	<b>Phantom-S / Force-L1/ Force-L2</b>				

PYLONTECH <b>(High Voltage)</b> <a href="http://www.pylontech.com.cn/">http://www.pylontech.com.cn/</a>	<b>Force H1: (336V74Ah) 37A max</b> 2 modules 7kWh, 96V 3 modules 10.5kWh, 144V 4 modules 14kWh, 192V 5 modules 17.5kWh, 240V 6 modules 21kWh, 288V 7 modules 24.5kWh, 336V <b>Force H2: (384V37Ah) 37A max</b> 2 modules 7kWh, 192V 3 modules 10.5kWh, 288V 4 modules 14kWh, 384V	V1.3	ABH1007_	✓	✓
	<b>Powercube X1 (336V50Ah) 50A max</b> <b>BMS: SC0500-100S</b> 3 modules 7.2kWh, 144V 4 modules 9.6kWh, 192V 5 modules 12kWh, 240V 6 modules 14.4kWh, 288V 7 modules 16.8kWh, 336V <b>Powercube X1 (384V50Ah) 40A max</b> <b>BMS: SC0500-40S</b> * 2 modules 4.8kWh, 96V * 3 modules 7.2kWh, 144V 4 modules 9.6kWh, 192V 5 modules 12kWh, 240V	V4.6			

	<p>6 modules 14.4kWh, 288V          7 modules 16.8kWh, 336V          * 8 modules 19.2kWh, 384V *</p> <p>* BMS Article Number SC0500NA02V00401 or lower cannot use in 2 or 8 modules.</p> <p><b>Powercube X2 (336V74Ah) 74A max</b>  <b>BMS: SC0500-100S</b></p> <p>3 modules 10.65kWh, 144V          4 modules 14.20kWh, 192V          5 modules 17.76kWh, 240V          6 modules 21.31kWh, 288V          7 modules 24.86kWh, 336V</p> <p><b>Powercube X2 (384V74Ah) 40A max</b>  <b>BMS: SC0500-40S</b></p> <p>* 2 modules 7.10kWh, 96V *          3 modules 10.65kWh, 144V          4 modules 14.20kWh, 192V          5 modules 17.76kWh, 240V          6 modules 21.31kWh, 288V          7 modules 24.86kWh, 336V          * 8 modules 28.41kWh, 384V *</p> <p>* BMS Article Number SC0500NA02V00401 or lower cannot use in 2 or 8 modules.</p>				
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BlueNova	<b>Bluetooth series: 66A max</b> 52V,104V,156V,208V	V5.13	ABH1007_B	For 52V battery, see Note 1)	For 52V battery, see Note 1)
BeePlanet	<b>BeeBattery Home 4</b> 4kWh, 90V, 66A max <b>BeeBattery Home 8</b> 8kWh, 90V, 66A max <b>BeeBattery Home 12</b> 12kWh, 90V, 66A max	V1.0	ABH1007_B	✓	✓
	<b>Home ESS 6</b> 6kWh, 182V, 15A max <b>Home ESS 12</b> 12kWh, 182V, 30A max	V4.1.6	ABH1007_L	✓	✓
WECO Dual Voltage <b>(Low Voltage)</b> <a href="https://wecobatteries.com/dual-voltage-2/">https://wecobatteries.com/dual-voltage-2/</a>	<b>WECO 5K3 LV: 66A max</b> <u>Modules in PARALELL:</u> 1 module 5.3kWh, 52V 2 modules 10.4kWh, 52V 3 modules 15.6kWh, 52V 4 modules 20.8kWh, 52V 5 modules 26kWh, 52V	---	ABH1007_I	See Note 1)	See Note 1)
WECO Dual Voltage <b>(High Voltage)</b> <a href="https://wecobatteries.com/dual-voltage-2/">https://wecobatteries.com/dual-voltage-2/</a>	<b>HV-BOX * + WECO 5K3</b> <u>Modules in SERIE:</u> 2 modules 10.4kWh, 104V 3 modules 15.6kWh, 156V 4 modules 20.8kWh, 208V 5 modules 26kWh, 260V 6 modules 31.2kWh, 312V 7 modules 36.4kWh, 364V	HV-BOX: 8.17 WECO 5K3: ---	ABH1007_J	✓	✓

	* HV-BOX_G2 (80-750Vdc)				
<b>CEGASA (Low Voltage)</b>	<p><b>eNerlit 5160 + TCC: 66A max</b></p> <p><u>Modules in PARALELL:</u></p> <p>1 module 3.1kWh, 51.2V                  2 modules 6.2kWh, 51.2V                  3 modules 9.3kWh, 51.2V                  4 modules 12.4kWh, 51.2V                  5 modules 15.5kWh, 51.2V                  6 modules 18.6kWh, 51.2V                  7 modules 21.7kWh, 51.2V                  8 modules 24.8kWh, 51.2V</p> <p><b>eBick Ultra 175 + TCC: 66A max</b></p> <p><u>Modules in PARALELL:</u></p> <p>1 module 13.5kWh, 48V                  2 modules 27kWh, 48V                  3 modules 40.5kWh, 48V                  4 modules 54kWh, 48V</p>	TCC: 15065d3	ABH1007_J	See Note 1)	See Note 1)
<b>DYNESS (Low Voltage)</b>	<b>B3 / B4850 / POWERBOX / A48100 / B48100 / BX48100 / BX51100</b>	---	ABH1007_J	See Note 1)	See Note 1)
<b>GREENHEISS (Low Voltage)</b>	<b>GH-LI 2.4 PLUS GH-LI 2.4 IRON</b>	PLUS: --- IRON: V2.3	ABH1007_J	See Note 1)	See Note 1)



TURBO ENERGY (Low Voltage)	Lithium Series Dual 48V 5.1 kWh Lithium Series Slim 48V 2.4 kWh	---	ABH1007_M	See Note 1)	See Note 1)
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**Note:** 1) The maximum power the inverter can transfer to/from the battery is 3100W. This is due to the fact that the inverter is limited to transfer 66A to this Low Voltage Battery.

## 3 REVISION HISTORY

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Revision	Date	Change Description	Author
_	16/01/2020	Initial document	D.B.R.
_A	22/07/2020	BlueNova battery added BeeBattery Home added	D.B.R.
_B	16/10/2020	Pylontech HV batteries added BYD Battery-Box Premium added Pylontech LV batteries added	D.B.R.
_C	10/03/2021	BYD Battery-Box Premium minimum FW fixed	D.B.R.
_D	15/09/2021	WECO Dual Voltage 5K3 LV battery added	D.B.R.
_E	08/02/2022	Pylontech LV batteries added WECO Dual Voltage HV-BOX + 5K3 HV battery added CEGASA eNerlit 5160 and eBick Ultra 175 batteries added Dyness LV batteries added GREENHEISS GH-LI 2.4 PLUS y GH-LI 2.4 IRON	D.B.R.
_F	24/06/2022	BeePlanet HOME ESS 6kWh y 12kWh batteries added	D.B.R.
_G	22/09/2022	US5000 series of Pylontech LV added TURBO ENERGY SLIM / DUAL LV added	D.B.R.
_H	20/01/2023	Dyness LV A48100 / B48100 / BX48100 / BX51100 added	D.B.R.