



Product Service

Compliance Document

No. D 18 03 85769 042

Holder of Certificate: **SolaX Power Network Technology (Zhejiang) Co., Ltd.**

No. 288 Shizhu Road,
Tonglu Economic Development Zone
311500 Tonglu City, Zhejiang Province
PEOPLE'S REPUBLIC OF CHINA

Product: **Converter**
PV Grid-interactive inverter with storage battery system

Model(s): **Inverter models:**
X1-Hybrid-3.0-N-C, X1-Hybrid-3.7-N-C, X1-Hybrid-4.6-N-C,
X1-Hybrid-5.0-N-C, X1-Hybrid-3.0-D-C, X1-Hybrid-3.7-D-C,
X1-Hybrid-4.6-D-C, X1-Hybrid-5.0-D-C, X1-Hybrid-3.0-N-E,
X1-Hybrid-3.7-N-E, X1-Hybrid-4.6-N-E, X1-Hybrid-5.0-N-E,
X1-Hybrid-3.0-D-E, X1-Hybrid-3.7-D-E, X1-Hybrid-4.6-D-E,
X1-Hybrid-5.0-D-E, X1-Fit-3.7C, X1-Fit-3.7E, X1-Fit-4.6C,
X1-Fit-4.6E, X1-Fit-5.0C, X1-Fit-5.0E
Battery model: Pylontech Battery H48050

Parameters: Battery voltage operation range: 85-400 Vd.c.
Nominal AC grid voltage: 230V
Nominal AC grid frequency: 50 Hz
See page 2-5 for more parameters

Tested according to: CEI 0-21:2016
CEI 0-21/V1:2017

This Compliance document confirms the compliance with the listed standards on a voluntary basis. It refers only to the sample submitted for testing and certification and does not certify the quality or safety of the serial products. See also notes overleaf.

Test report no.: 64290180069901

Date, 2018-03-26


(Zhengdong Ma)



Page 1 of 5



Product Service

Compliance Document

No. D 18 03 85769 042

Model	X1-Hybrid-5.0-D-E, X1-Hybrid-5.0-N-E	X1-Hybrid-4.6-D-E, X1-Hybrid-4.6-N-E	X1-Hybrid-3.7-D-E, X1-Hybrid-3.7-N-E	X1-Hybrid-3.0-D-E, X1-Hybrid-3.0-N-E
PV input rating				
Max. DC voltage:	600 Vd.c.			
MPP voltage range:	125 – 550 Vd.c.			
Max. DC current (Input A/Input B):	10A/10A			
Isc PV (Input A/input B):	14A/14A			
Max. continuous input power:	6000W	6000W	5000W	4000W
Grid output rating				
Nominal AC grid voltage:	230 Va.c.			
Nominal AC grid frequency	50 Hz			
Max. continuous AC current	21.7A	21A	16A	14.4A
Nominal AC Apparent power:	4999VA	4600VA	3680VA	3000VA
Adjustable displacement factor range	0.8 leading ... 0.8 lagging			
Grid input rating				
Nominal AC input voltage:	230 Va.c.			
Nominal AC input frequency:	50 Hz			
Max. AC input current:	21.7A	21A	16A	14.4A
Battery input/output ratings:				
Battery type:	Lithium			
Battery Operation Voltage	85 – 400VDC			
Max. Charge and discharge current:	20A			
Max. Charge and discharge power:	6000W			
Emergency power supply (EPS) output rating				
EPS nominal voltage:	230 Va.c.			
EPS nominal frequency:	50 Hz			
EPS Nominal apparent power:	5000VA	5000VA	4000VA	4000VA
EPS Rated current:	21.7A	21.7A	17.4A	17.4A
Note:				



Compliance Document

No. D 18 03 85769 042

Model	X1-Hybrid-5.0-D-C, X1-Hybrid-5.0-N-C	X1-Hybrid-4.6-D-C, X1-Hybrid-4.6-N-C	X1-Hybrid-3.7-D-C, X1-Hybrid-3.7-N-C	X1-Hybrid-3.0-D-C, X1-Hybrid-3.0-N-C
PV input rating				
Max. DC voltage:	600 Vd.c.			
MPP voltage range:	125 – 550 Vd.c.			
Max. DC current (Input A/Input B):	10A/10A			
Isc PV (Input A/input B):	14A/14A			
Max. continuous input power (@cos φ=1)	6000W	6000W	5000W	4000W
Grid output rating				
Nominal AC grid voltage:	230 Va.c.			
Nominal AC grid frequency	50 Hz			
Max. continuous AC current	21.7A	21A	16A	14.4A
Nominal AC Apparent power (@cos φ=1):	4999VA	4600VA	3680VA	3000VA
Adjustable displacement factor range	0.8 leading ... 0.8 lagging			
Grid input rating				
Nominal AC input voltage:	230 Va.c.			
Nominal AC input frequency:	50 Hz			
Max. AC input current:	21.7A	21A	16A	14.4A
Battery input/output ratings:				
Battery type:	Lithium			
Battery Operation Voltage	85 – 400VDC			
Max. Charge and discharge current:	20A			
Max. Charge and discharge power:	6000W			

Model	X1-Fit-5.0C	X1-Fit-4.6C	X1-Fit-3.7C
Grid output rating			
Nominal AC grid voltage:	230 Va.c.		
Nominal AC grid frequency	50 Hz		
Max. continuous AC current	21.7A	21A	16A
Nominal AC Apparent power (@cos φ=1):	4999VA	4600VA	3680VA
Adjustable displacement factor range	0.8 leading ... 0.8 lagging		
Grid input rating			
Nominal AC input voltage:	230 Va.c.		
Nominal AC input frequency:	50 Hz		
Max. continuous AC current	21.7 Aa.c.	21.0 Aa.c.	16.0 Aa.c.
Nominal AC Apparent power:	4999 VA	4600 VA	3680 VA
Battery input/output ratings:			
Battery type:	Lithium		
Battery Operation Voltage	85 – 400VDC		
Max. Charge and discharge current:	20A		
Max. Charge and discharge power:	6000W		



Compliance Document

No. D 18 03 85769 042

Model	X1-Fit-5.0E	X1-Fit-4.6E	X1-Fit-3.7E
Grid output rating			
Nominal AC grid voltage:	230 Va.c.		
Nominal AC grid frequency	50 Hz		
Max. continuous AC current	21.7A	21A	16A
Nominal AC Apparent power (@cos φ=1):	4999VA	4600VA	3680VA
Adjustable displacement factor range	0.8 leading ... 0.8 lagging		
Grid input rating			
Nominal AC input voltage:	230 Va.c.		
Nominal AC input frequency:	50 Hz		
Max. continuous AC current	21.7 Aa.c.	21.0 Aa.c.	16.0 Aa.c.
Nominal AC Apparent power:	4999 VA	4600 VA	3680 VA
Battery input/output ratings:			
Battery type:	Lithium		
Battery Operation Voltage	85 – 400VDC		
Max. Charge and discharge current:	20A		
Max. Charge and discharge power:	6000W		
EPS output rating			
Nominal AC input voltage:	230 Va.c.		
Nominal AC input frequency:	50 Hz		
Nominal apparent power:	5000 VA	5000 VA	4000 VA
EPS Rated current:	21.7 Aa.c.	21.7 Aa.c.	17.4 Aa.c.

Battery		Capacity of the storage system (CUS)	
Model	Manufacturer	Capacity of per battery module (kWh)	Number(s) of battery module recommended by manufacturer
H48050	Pylontech	2.4	2-7
Nominal voltage for each module: 48Vdc; Voltage range: 45-54Vdc			



Product Service

Compliance Document

No. D 18 03 85769 042

TYPE OF APPARATUS:

DISCONNECTION DEVICE	INTERFACE PROTECTION DEVICE	DEVICE FOR STATIC CONVERSION	ROTATING GENERATOR DEVICE
X	X	X	

Manufacturer: SolaX Power Network Technology (Zhejiang) Co., Ltd.

Apparatus type: PV Grid-Interactive Inverter

Model: see cover page

Firmware: Inverter DSP1: 2.07, Inverter DSP2:2.01, Manager ARM:2.03

Number of phase: 1

Nominal power: See above tables for each model

Remark: The devices are capable to limit Idc to 0.5% of the rated grid current

Having assessed the test report:

64.290.18.00699.01 dated 16.03.2018

Issued by laboratory:

TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch

5F, Communication Bldg., 163 Pingyun Road, Huangpu West Ave, Guangzhou city 510656, P.R.China

Laboratory Accredited by DakkS

In compliance with ISO/IEC 17025:2005

Accreditation number: D-PL-19065-01-00

Having examined the ISO 9001 certificate of the manufacturer number

NO:15/15Q0386R00

Issued by:

Hangzhou WIT Assessment Co.,Ltd. (Management system CNAS C015-Q)