



Product Service

Compliance Document

No. D 101050 0004 Rev. 00

Holder of Certificate: **KEHUA FRANCE SAS**
3 Place Général de Gaulle
13001 Marseille
FRANCE

Product: **Converter**
(Energy Storage Inverter)

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.: 64290180318101A

Date, 2018-09-18

(Billy Qiu)



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Model(s): **KF-SPH3600-BL, KF-SPH5000-BL,
KF-SPH3600-BL-S, KF-SPH5000-BL-S**

Parameters:

Model	KF-SPH3600-BL	KF-SPH5000-BL	KF-SPH3600-BL-S	KF-SPH5000-BL-S
PV input rating				
Max. input power	4000 W	5500 W	4000 W	5500 W
Rated input voltage	360 Vd.c.	360 Vd.c.	360 Vd.c.	360 Vd.c.
Max. input voltage	600 Vd.c.	600 Vd.c.	600 Vd.c.	600 Vd.c.
MPPT voltage range	125 - 550 Vd.c.	125 - 550 Vd.c.	125 - 550 Vd.c.	125 - 550 Vd.c.
MPPT voltage range (full load)	250 - 450 Vd.c.	250 - 450 Vd.c.	250 - 450 Vd.c.	250 - 450 Vd.c.
Max. input current	2 x 11.0 Ad.c.	2 x 11.0 Ad.c.	2 x 11.0 Ad.c.	2 x 11.0 Ad.c.
PV short circuit current	2 x 13.8 Ad.c.	2 x 13.8 Ad.c.	2 x 13.8 Ad.c.	2 x 13.8 Ad.c.
Battery input/output rating				
Battery type	Lithium / Lead-acid	Lithium / Lead-acid	Lithium / Lead-acid	Lithium / Lead-acid
Rated voltage	48 Vd.c.	48 Vd.c.	48 Vd.c.	48 Vd.c.
Battery voltage range	42 ~ 58 Vd.c.	42 ~ 58 Vd.c.	42 ~ 58 Vd.c.	42 ~ 58 Vd.c.
Max. charging power	2500 W	2500 W	2500 W	2500 W
Max. charging current	50 Ad.c.	50 Ad.c.	50 Ad.c.	50 Ad.c.
Max. discharging power	2500 W	2500 W	2500 W	2500 W
Max. discharging current	60 Ad.c.	60 Ad.c.	60 Ad.c.	60 Ad.c.
Grid input rating				
Rated input voltage	230 Va.c.	230 Va.c.	230 Va.c.	230 Va.c.
Rated grid frequency	50 Hz	50 Hz	50 Hz	50 Hz
Max. input power	2500 W	2500 W	2500 W	2500 W
Rated input current	10.9 Aa.c.	10.9 Aa.c.	10.9 Aa.c.	10.9 Aa.c.
Max. input current	12.5 Aa.c.	12.5 Aa.c.	12.5 Aa.c.	12.5 Aa.c.
Grid output rating				
Rated output apparent power	3600 VA	5000 VA	3600 VA	5000 VA
Rated output voltage	230 Va.c.	230 Va.c.	230 Va.c.	230 Va.c.
Rated output current	15.7 Aa.c.	21.7Aa.c.	15.7 Aa.c.	21.7Aa.c.
Max. output current	16.4 Aa.c.	22.7 Aa.c.	16.4 Aa.c.	22.7 Aa.c.
Rated output frequency	50 Hz	50 Hz	50 Hz	50 Hz
Power factor	0.8 leading - 0.8 lagging	0.8 leading - 0.8 lagging	0.8 leading - 0.8 lagging	0.8 leading - 0.8 lagging
Back up output rating				
Rated output apparent power	3500 VA	3500 VA	3500 VA	3500 VA
Rated output active power	2500 W	2500 W	2500 W	2500 W
Rated output voltage	230 Va.c.	230 Va.c.	230 Va.c.	230 Va.c.
Rated output current	10.9 Aa.c.	10.9 Aa.c.	10.9 Aa.c.	10.9 Aa.c.
Max. output current	15.9 Aa.c.	15.9 Aa.c.	15.9 Aa.c.	15.9 Aa.c.
Rated output frequency	50 Hz	50 Hz	50 Hz	50 Hz
General data				
Ingress protection rating	IP65	IP65	IP20	IP20
Ambient temperature range	-25°C~60°C	-25°C~60°C	0°C~45°C	0°C~45°C
Protect class	I	I	I	I



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License condition:

- (1) The grid connection protection system is evaluated according to DIN VDE 0126-1-1:2013, specially with consideration of "Enedis-NOI-RES_13E - Protections des installations de production raccordées au réseau public de distribution (Version 6)". The setting of the integrated protection system of DIN VDE 0126-1-1 VFR 2014 is as follows:
Over voltage (stage 1: 10 min. mean value): 253 V;

Over voltage (stage 2): 264.5 V;

Under voltage: 184 V;

Over frequency: 50.6 Hz;

Under frequency: 47.5 Hz.
- (2) The installation of this PV grid-interactive inverter in the PV plant shall further comply with "Guide Pratique XP C 15-712-3:2016, Installations photovoltaïques avec dispositif de stockage et raccordées à un réseau public de distribution" and other suitable regulations.

Tested according to: DIN VDE 0126-1-1 (VDE V 0126-1-1):2013
(with national deviation of France: DIN VDE 0126-1-1 VFR 2014)

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