

Compliance Document

No. D 075386 0134 Rev. 01


Holder of Certificate: **Shenzhen Kstar New Energy Company Limited**
The 9th Floor, R&D Building
Kstar Industrial Park, Guangming Hi-tech Industrial Zone
518107 Shenzhen, Guangdong Province
PEOPLE'S REPUBLIC OF CHINA

Product: **Converter**
(Hybrid Inverter with storage battery system)

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. For details see: www.tuvsud.com/ps-cert

Test report no.: 64290203050502

Date, 2021-05-19



(Billy Qiu)

Compliance Document

No. D 075386 0134 Rev. 01

Model(s): Inverter models: **BluE-S 3680D,**
BluE-S 5000D,
BluE-S 3680D-M1,
BluE-S 5000D-M1
 Battery model: **BluE-PACK5.1**

Parameters:

Model	BluE-S 3680D	BluE-S 5000D
PV input rating		
Max. input power	4800 W	6500 W
Rated input voltage	400 Vd.c.	400 Vd.c.
Max. input voltage	580 Vd.c.	580 Vd.c.
MPPT voltage range	184 - 550 Vd.c.	230 - 550 Vd.c.
Max. input current	13 Ad.c.×2	13 Ad.c.×2
PV short circuit current	16 Ad.c.×2	16 Ad.c.×2
Battery input/output rating		
Battery type	LFP (LiFePO4)	LFP (LiFePO4)
Rated voltage	48 Vd.c.	48 Vd.c.
Battery voltage range	40 - 60 Vd.c.	40 - 60 Vd.c.
Max. charging power	3000 W	4600 W
Max. charging current	50 Ad.c.	100 Ad.c.
Max. discharging power	4000 W	5000 W
Max. discharging current	80 Ad.c.	100 Ad.c.
Grid input rating		
Rated input voltage	230 Va.c.	230 Va.c.
Rated grid frequency	50 Hz	50 Hz
Max. input apparent power	7360 VA	7360 VA
Max. input active power	7360 W	7360 W
Max. input current	32 Aa.c.	32 Aa.c.
Grid output rating		
Max. output apparent power	3680 VA	5000 VA
Max. output active power	3680 W	5000 W
Rated output voltage	230 Va.c.	230 Va.c.
Max. output current	16 Va.c.	22 Va.c.
Rated output frequency	50 Hz	50 Hz
Power factor	0.9 leading - 0.9 lagging	0.9 leading - 0.9 lagging
AC load output rating		
Max. output apparent power	4000 VA	5000 VA
Max. output active power	3680 W	4600 W
Rated output voltage	230 Va.c.	230 Va.c.
Max. output current	16 Aa.c.	20 Aa.c.
Rated output frequency	50 Hz	50 Hz

Compliance Document

No. D 075386 0134 Rev. 01

Model	BluE-S 3680D-M1	BluE-S 5000D-M1
PV input rating		
Max. input power	4800 W	6500 W
Rated input voltage	400 Vd.c.	400 Vd.c.
Max. input voltage	580 Vd.c.	580 Vd.c.
MPPT voltage range	165 - 520 Vd.c.	210 - 520 Vd.c.
Max. input current	15 Ad.c.×2	15 Ad.c.×2
PV short circuit current	18 Ad.c.×2	18 Ad.c.×2
Battery input/output rating		
Battery type	LFP (LiFePO4)	LFP (LiFePO4)
Rated voltage	48 Vd.c.	48 Vd.c.
Battery voltage range	40 - 60 Vd.c.	40 - 60 Vd.c.
Max. charging power	3000 W	4600 W
Max. charging current	50 Ad.c.	100 Ad.c.
Max. discharging power	4000 W	5000 W
Max. discharging current	80 Ad.c.	100 Ad.c.
Grid input rating		
Rated input voltage	230 Va.c.	230 Va.c.
Rated grid frequency	50 Hz	50 Hz
Max. input apparent power	7360 VA	7360 VA
Max. input active power	7360 W	7360 W
Max. input current	32 Aa.c.	32 Aa.c.
Grid output rating		
Max. output apparent power	3680 VA	5000 VA
Max. output active power	3680 W	5000 W
Rated output voltage	230 Va.c.	230 Va.c.
Max. output current	16 Va.c.	22 Va.c.
Rated output frequency	50 Hz	50 Hz
Power factor	0.9 leading - 0.9 lagging	0.9 leading - 0.9 lagging
AC load output rating		
Max. output apparent power	4000 VA	5000 VA
Max. output active power	3680 W	4600 W
Rated output voltage	230 Va.c.	230 Va.c.
Max. output current	16 Aa.c.	20 Aa.c.
Rated output frequency	50 Hz	50 Hz

Compliance Document

No. D 075386 0134 Rev. 01

Battery model	BluE-PACK5.1			
Manufacturer	Shenzhen Kstar New Energy Company Limited			
Battery type	Lithium			
Rated voltage	51.2 Vd.c.			
Capacity of battery[kWh]	5.12(with 1× battery unit)	10.24(with 2× battery unit)	15.36(with 3× battery unit)	20.48(with 4× battery unit)
Firmware version of the BMS	V1.8			

TYPE OF APPARATUS:

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

Manufacturer: Shenzhen Kstar New Energy Company Limited

Apparatus type: Hybrid Inverter with storage battery system

Model: See page 2

Firmware version: DSP: V1.3.06, ARM: V1.3.08

Number of phase: 1

Nominal power: See above tables

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

Having assessed the test report:
64.290.20.30505.02 dated 17.05.2021

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 production facility, number
NO: HK03/0243

Issued by:
SGS Certification Body (Management system UKAS 0005)

Tested according to: CEI 0-21:2019