

Compliance Document

No. D 075386 0158 Rev. 00

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)**

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.: 64290213009001

Date, 2021-05-26



(Billy Qiu)

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Model(s): **BluE-S 3680D, BluE-S 5000D,
BluE-S 3680D-M1, BluE-S 5000D-M1**

Parameters:

Power generation unit

Manufacturer: Shenzhen Kstar New Energy Company Limited

Power generation unit type: Inverter

Model	BluE-S 3680D	BluE-S 5000D
PV terminal		
Vmax. PV	580Vd.c.	
Rate Voltage	400Vd.c.	
MPPT Voltage Range	120 ~ 550Vd.c.	
MPPT Voltage Range (full load)	184 ~ 550Vd.c.	230 ~ 550Vd.c.
MPPT Tracker number	2	
Max. continuous PV input current per tracker	13Ad.c.	
Isc PV per tracker	16Ad.c.	
Max. continuous PV input power	4800W	6500W
Battery terminal		
Battery type	Lithium or lead-acid batteries	
Voltage range	40 ~ 60Vd.c.	
Rated voltage	48Vd.c.	
Maximum charge/discharge current	50Ad.c./80Ad.c.	100Ad.c./100Ad.c.
Maximum charge/discharge power	3000W/4000W	4600W/4600W
Grid terminal parameter		
Rated voltage	230Va.c.	
Rated frequency	50Hz	
Rated input Current	20Aa.c.	
Maximum continuous input current	20Aa.c.	
Maximum continuous input power	4600VA	
Rated output Current	16Aa.c.	20Aa.c.
Maximum continuous output current	16Aa.c.	20Aa.c.
Power factor (Cos phi), adjustable	0.95 leading ~ 0.95 lagging	
Maximum continuous output power	3680VA	4600VA
PEmax, max. active power	3676W	4592W
SEmax, max apparent power	3677VA	4595VA
Back up load terminal parameter		
Rated voltage	230Va.c.	
Rated frequency	50Hz	
Rated output Current	16Aa.c.	20Aa.c.
Maximum continuous output current	16Aa.c.	20Aa.c.
Rated continuous output power	3680W	4600W
Maximum output apparent power	4000VA	4600VA

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Model	BluE-S 3680D-M1	BluE-S 5000D-M1
PV terminal		
Vmax. PV	580Vd.c.	
Rate Voltage	400Vd.c.	
MPPT Voltage Range	80 ~ 560Vd.c.	
MPPT Voltage Range (full load)	165 ~ 520Vd.c.	210 ~ 520Vd.c.
MPPT Tracker number	2	
Max. continuous PV input current per tracker	15Ad.c.	
Isc PV per tracker	18Ad.c.	
Max. continuous PV input power	4800W	6500W
Battery terminal		
Battery type	Lithium or lead-acid batteries	
Voltage range	40 ~ 60Vd.c.	
Rated voltage	48Vd.c.	
Maximum charge/discharge current	50Ad.c./80Ad.c.	100Ad.c./100Ad.c.
Maximum charge/discharge power	3000W/4000W	4600W/4600W
Grid terminal parameter		
Rated voltage	230Va.c.	
Rated frequency	50Hz	
Rated input Current	20Aa.c.	
Maximum continuous input current	20Aa.c.	
Maximum continuous input power	4600VA	
Rated output Current	16Aa.c.	20Aa.c.
Maximum continuous output current	16Aa.c.	20Aa.c.
Power factor (Cos phi), adjustable	0.95 leading ~ 0.95 lagging	
Maximum continuous output power	3680VA	4600VA
PEmax, max. active power	3674W	4593W
SEmax, max apparent power	3676VA	4595VA
Back up load terminal parameter		
Rated voltage	230Va.c.	
Rated frequency	50Hz	
Rated output Current	16Aa.c.	20Aa.c.
Maximum continuous output current	16Aa.c.	20Aa.c.
Rated continuous output power	3680W	4600W
Maximum output apparent power	4000VA	4600VA

NS protection

Manufacturer: Shenzhen Kstar New Energy Company Limited

NS protection type: BluE-S 3680D, BluE-S 5000D, BluE-S 3680D-M1, BluE-S 5000D-M1

Remark: The power generation unit(s) and network and system protection designated above meet the requirements of Network connection rule VDE-AR-N 4105 according to test requirement DIN VDE V 0124-100 (VDE V 0124-100). Test report of E.5 and E.7 of VDE-AR-N 4105 are provided on technical report No.: 64.290.21.30090.01



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**Tested
according to:**

VDE-AR-N 4105:2018
DIN VDE V 0124-100:2020