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DAkkS Deutsche Akkreditierungsstelle D-ZE-11321-01-00

TÜV SÜD Product Service

Certificate of Conformity

No. ESY 075386 0216 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 (Grid-Connected Inverter)**

Model(s): **BluE-G 3000S, BluE-G 3000S-M1, BluE-G 3000D, BluE-G 3000D-M0, BluE-G 3000D-M1, BluE-G 3600D, BluE-G 3600D-M0, BluE-G 3600D-M1, BluE-G 4000D, BluE-G 4000D-M0, BluE-G 4000D-M1, BluE-G 4200D, BluE-G 4200D-M0, BluE-G 4200D-M1, BluE-G 4600D, BluE-G 4600D-M1, BluE-G 5000D, BluE-G 5000D-M1, BluE-G 6000D, BluE-G 6000D-M1, BluE-G 8000D**

Parameters: See page 3-5

Applicable standards: NTS V2.1:2021-07

This Certificate of Conformity confirms the compliance with the above listed standards on a voluntary basis. It refers only to the sample submitted to TÜV SÜD Product Service GmbH and does not certify the quality or safety of the serial products. It was issued according to TÜV SÜD Product Service certification program Photovoltaics and Grid Integration. For details see: www.tuvsud.com/ps-cert

Test report no.: 64290233038601

Date, 2023-06-02

(Billy Qiu)

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Certification Body TÜV SÜD Product Service GmbH performed assessment of the products listed below:

Type of PGM to be installed	Photovoltaic, Type A
Test requirement	The certification complies with the requirements of the following documents: Technical standard for monitoring the compliance of power generating modules according to EU Regulation 2016/631. Version 2.1 (2021-07-09) + correction of errors of Version 2.1 (2021-10-08)
Manufacturer	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
Model and Technical Data	See page 3-5
Software version	ARM: V2.2.00, DSP: V2.7.00.

Scope of assessment and results

Clause of NTS V2.1	Requirement	Type A	Assessment	
			Type	Result
5.1.	Power-frequency limited overfrequency regulation mode (MRPFL-O)	Yes	Test	Pass

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Parameters:

Model:	BluE-G 3000S	BluE-G 3000S-M1	BluE-G 3000D	BluE-G 3000D-M0	BluE-G 3000D-M1
PV input parameter					
Maximum input voltage	600 Vd.c.				
Rated input voltage	380 Vd.c.				
MPPT voltage range	80~550 Vd.c.	80~560 Vd.c.	80~550 Vd.c.	80~560 Vd.c.	
MPPT voltage range (full load)	280~480 Vd.c.		160~480 Vd.c.		
Maximum input current	12.5 Ad.c.	15 Ad.c.	2*11 Ad.c.	2*13 Ad.c.	2*15 Ad.c.
PV I_{SC}	15.6 Ad.c.	18 Ad.c.	2*13.2 Ad.c.	2*15.6 Ad.c.	2*18 Ad.c.
Maximum input power	4050 W				
Grid parameter					
Rated output voltage	230 Va.c.				
Rated output frequency	50 Hz				
Rated output current	13 Aa.c.				
Maximum continuous output current	14.5 Aa.c.				
Rated output active power	3000 W				
Maximum output active power	3300 W				
Maximum output apparent power	3300 VA				
Power factor	0.8 inductive(under-excited) to 0.8 capacitive(over-excited)				

Model:	BluE-G 3600D	BluE-G 3600D-M0	BluE-G 3600D-M1	BluE-G 4000D	BluE-G 4000D-M0
PV input parameter					
Maximum input voltage	600 Vd.c.				
Rated input voltage	380 Vd.c.				
MPPT voltage range	80~550 Vd.c.	80~560 Vd.c.		80~550 Vd.c.	80~560 Vd.c.
MPPT voltage range (full load)	190~480 Vd.c.			210~480 Vd.c.	
Maximum input current	2*11 Ad.c.	2*13 Ad.c.	2*15 Ad.c.	2*11 Ad.c.	2*13 Ad.c.
PV I_{SC}	2*13.2 Ad.c.	2*15.6 Ad.c.	2*18 Ad.c.	2*13.2 Ad.c.	2*15.6 Ad.c.
Maximum input power	4860 W			5400 W	
Grid parameter					
Rated output voltage	230 Va.c.				
Rated output frequency	50 Hz				
Rated output current	15.7 Aa.c.			17.4 Aa.c.	
Maximum continuous output current	17.3 Aa.c.			19 Aa.c.	
Rated output active power	3600 W			4000 W	
Maximum output active power	3960 W			4400 W	
Maximum output apparent power	3960 W			4400 W	
Power factor	0.8 inductive(under-excited) to 0.8 capacitive(over-excited)				

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Model:	BluE-G 4000D-M1	BluE-G 4200D	BluE-G 4200D-M0	BluE-G 4200D-M1
PV input parameter				
Maximum input voltage	600 Vd.c.			
Rated input voltage	380 Vd.c.			
MPPT voltage range	80~560 Vd.c.	80~550 Vd.c.	80~560 Vd.c.	
MPPT voltage range (full load)	210~480 Vd.c.	220~480 Vd.c.		
Maximum input current	2*15 Ad.c.	2*11 Ad.c.	2*13 Ad.c.	2*15 Ad.c.
PV I_{SC}	2*18 Ad.c.	2*13.2 Ad.c.	2*15.6 Ad.c.	2*18 Ad.c.
Maximum input power	5400 W	5670 W		
Grid parameter				
Rated output voltage	230 Va.c.			
Rated output frequency	50 Hz			
Rated output current	17.4 Aa.c.	18.3 Aa.c.		
Maximum continuous output current	19 Aa.c.	20 Aa.c.		
Rated output active power	4000 W	4200 W		
Maximum output active power	4400 W	4620 W		
Maximum output apparent power	4400 VA	4620 VA		
Power factor	0.8 inductive(under-excited) to 0.8 capacitive(over-excited)			

Model:	BluE-G 4600D	BluE-G 4600D-M1	BluE-G 5000D	BluE-G 5000D-M1
PV input parameter				
Maximum input voltage	600 Vd.c.			
Rated input voltage	380 Vd.c.			
MPPT voltage range	80~550 Vd.c.	80~560 Vd.c.	80~550 Vd.c.	80~560 Vd.c.
MPPT voltage range (full load)	210~480 Vd.c.		230~480 Vd.c.	
Maximum input current	2*12.5 Ad.c.	2*15 Ad.c.	2*12.5 Ad.c.	2*15 Ad.c.
PV I_{SC}	2*15.6 Ad.c.	2*18 Ad.c.	2*15.6 Ad.c.	2*18 Ad.c.
Maximum input power	6210 W		6750 W	
Grid parameter				
Rated output voltage	230 Va.c.			
Rated output frequency	50 Hz			
Rated output current	20 Aa.c.		21.7 Aa.c.	
Maximum continuous output current	22 Aa.c.		24 Aa.c.	
Rated output active power	4600 W		5000 W	
Maximum output active power	5060 W		5500 W	
Maximum output apparent power	5060 VA		5500 VA	
Power factor	0.8 inductive(under-excited) to 0.8 capacitive(over-excited)			

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Model:	BluE-G 6000D	BluE-G 6000D-M1	BluE-G 8000D
PV input parameter			
Maximum input voltage	600 Vd.c.		
Rated input voltage	380 Vd.c.		
MPPT voltage range	80~550 Vd.c.	80~560 Vd.c.	80~540 Vd.c.
MPPT voltage range (full load)	280~480 Vd.c.		250~500 Vd.c.
Maximum input current	2*12.5 Ad.c.	2*15 Ad.c.	26/16 Ad.c.
PV I_{SC}	2*15.6 Ad.c.	2*18 Ad.c.	31/19 Ad.c.
Maximum input power	8100 W		10800 W
Grid parameter			
Rated output voltage	230 Va.c.		
Rated output frequency	50 Hz		
Rated output current	26 Aa.c.		35 Aa.c.
Maximum continuous output current	26 Aa.c.		35 Aa.c.
Rated output active power	6000 W		8000 W
Maximum output active power	6000 W		8000 W
Maximum output apparent power	6000 VA		8000 VA
Power factor	0.8 inductive(under-excited) to 0.8 capacitive(over-excited)		