

Compliance Document

No. D 087538 0023 Rev. 00

Holder of Certificate: **Shenzhen Senergy Technology Co., Ltd.**
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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.: 64290233013101

Date, 2023-07-06



(Billy Qiu)

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Model(s): SE 5KHB-D3, SE 6KHB-D3,
SE 8KHB-D3, SE 10KHB-D3

Parameters:

Model	SE 5KHB-D3	SE 6KHB-D3	SE 8KHB-D3	SE 10KHB-D3
PV terminal parameters				
V _{Max.} PV	1000 Vd.c.			
MPPT Voltage Range	160 - 950 Vd.c.			
MPPT Voltage Range (full load)	330 - 800 Vd.c.		370 - 800 Vd.c.	
Max. continuous PV input current	15 Ad.c. / 15 Ad.c.		20 Ad.c. / 30 Ad.c.	
Isc PV	20 Ad.c. / 20 Ad.c.		30 Ad.c. / 40 Ad.c.	
Max. continuous PV input power	9000 W		15000 W	
Battery terminal parameters				
Battery type	Lithium-ion / Lead-acid			
Voltage range	150 - 600 Vd.c.			
Rated voltage	504 Vd.c.			
Maximum charge / discharge current	25.0 Ad.c. / 25.0 Ad.c.		50.0 Ad.c. / 50.0 Ad.c.	
Maximum charge current from grid to battery	25 Ad.c.			
Maximum charge / discharge power	9000 W / 5800 W	9000 W / 7000 W	15000 W / 9100 W	15000 W / 11300 W
Maximum charge power from grid to battery	5000 W	6000 W	8000 W	10000 W
Grid terminal parameters				
Rated voltage	230/400 Va.c., 3W+N+PE			
Rated frequency	50 Hz			
Rated current output to Grid	7.2 Aa.c.	8.7 Aa.c.	11.6 Aa.c.	14.5 Aa.c.
Maximum continuous current output to Grid	8.0 Aa.c.	9.6 Aa.c.	12.7 Aa.c.	16.0 Aa.c.
Rated active power output to Grid	5000 W	6000 W	8000 W	10000 W
Maximum apparent power output to Grid	5500 VA	6600 VA	8800 VA	11000 VA
Maximum continuous current from Grid to battery	8.0 Aa.c.	9.6 Aa.c.	12.7 Aa.c.	16.0 Aa.c.
Maximum continuous current from Grid	25.0 Aa.c.			
Maximum apparent power from Grid to battery	5500 VA	6600 VA	8800 VA	11000 VA
Maximum apparent power from Grid	15800 VA			
Power factor (Cos phi), adjustable	0.8 inductive(under-excited) to 0.8 capacitive(over-excited)			

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Scope of assessment and results

Clause of NfG	Requirement	Type A1	Type A2	Type B1	Type B2	Type C	Type D	Assessment Result
Article 13.1 (a)	Frequency range	Y	-	-	-	-	-	Pass
Article 13.1 (b)	Ability to withstand the frequency of change of frequency (RoCoF)	Y	-	-	-	-	-	Pass
Article 13.2	Limited frequency sensitive mode — overfrequency (LFSM-O)	Y	-	-	-	-	-	Pass
Article 13.4 & 13.5	Maximum power capability reduction with falling frequency	Y	-	-	-	-	-	Pass
Article 13.6	Remote ceasing active power	Y	-	-	-	-	-	Pass
Article 13.7	Automatic connection to the network	Y	-	-	-	-	-	Pass
Article 14.3	Voltage drop bridging (FRT)	Y	-	-	-	-	-	Pass
Article 14.4	Reconnection after fault	Y	-	-	-	-	-	Pass
Article 20.2 (a)	Reactive power	Y	-	-	-	-	-	Pass
Article 20.3	Restoring active power after a failure	Y	-	-	-	-	-	Pass

Tested according to:

EN 50549-1:2019/AC:2019
RfG:2016
PPDS Annex 4:2022