

# Compliance Document

No. D 102650 0019 Rev. 00

**Holder of Certificate:** **Shanghai Sermatec Energy 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](http://www.tuvsud.com/ps-cert)

**Test report no.:** 64290203083601

**Date,** 2020-11-10



( Billy Qiu )

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**Model(s): SMT-5K-TL-LV**

## Parameters:

PV terminal	
Vmax. PV	580 Vd.c.
MPPT voltage range	125~550Vd.c.
Max. continuous PV input current	11/11 Ad.c.
Isc PV	14/14 Ad.c.
Max. continuous PV input power	6000W
Battery terminal parameter	
Battery type	Li-ion
Voltage range	40-58 Vd.c.
Rated voltage	48 Vd.c.
Maximum charge/discharge current	70/100 Ad.c.
Maximum charge/discharge power	4200/4600 W
Grid terminal parameter	
Rated voltage	230 Va.c.
Rated frequency	50 Hz
Rated input current	21.7 Aa.c.
Maximum continuous input current	22.7 Aa.c.
Maximum continuous input power	5000 W
Rated output current	21.7 Aa.c.
Maximum continuous output current	22.7 Aa.c.
Power factor (Cos phi), adjustable	0.8leading~0.8lagging
Maximum continuous output power	5000W
Backup load terminal parameter	
Rated voltage	230 Va.c.
Rated frequency	50 Hz
Rated output current	21.7 Aa.c.
Maximum continuous output current	22.8 Aa.c.
Maximum continuous output power	4600W

## License condition:

- (1) The grid connection protection system is evaluated according to DIN V VDE V 0126-1-1:2013, specially with consideration of "Enedis-FOR-RES\_18E - Information Collection Cards for a Connection Proposal before the file is complete and for a Connection Offer, to the Public Distribution Network managed by Enedis, of a Photovoltaic Production Installation with power greater than 36 kVA (Version 18)". The setting of the integrated protection system of DIN VDE 0126-1-1/A1 VFR 2019 is as follows:  
 Over voltage (stage 1: 10 min. mean value): 1.10 Un;  
 Over voltage for phase voltage and line voltage (stage 2): 1.15 Un;  
 Under voltage for phase voltage and line voltage: 0.80 Un;  
 Over frequency: 51.5 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.



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**Tested  
according to:**

DIN VDE 0126-1-1:2013 (with national deviation of France: DIN  
VDE 0126-1-1 VFR 2019)