



Product Service

Compliance Document

No. D 102650 0011 Rev. 01

Holder of Certificate: **Shanghai Sermatec Energy Technology Co.,Ltd.**
Room 601-602, Block A, No.399, ZhongRen Road
JiaDing District
201802 Shanghai
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.: 64290190142502

Date, 2021-04-28

(Billy Qiu)

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

Parameters:

Power generation unit	
Manufacturer	Shanghai Sermatec Energy Technology Co.,Ltd.
Power generation unit type	Inverter
Model	SMT-5K-TL-LV
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	20 Aa.c.
Maximum continuous input current	20.9 Aa.c.
Maximum continuous input power	4600 W
Rated output current	20 Aa.c.
Maximum continuous output current	20.9 Aa.c.
Power factor (Cos phi), adjustable	0.95 leading~0.95 lagging
Maximum continuous output power	4600 W
P _{Emax} , max. active power	4562 W
S _{Emax} , max apparent power	4570 VA
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	4600 W
NS protection	
Manufacturer	Shanghai Sermatec Energy Technology Co.,Ltd.
NS protection type	Integrated, Assigned to power generation unit model: SMT-5K-TL-LV
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 reports of E.5 and E.7 of VDE-AR-N 4105 are provided on technical report No.64290190142502.	



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**Tested
according to:**

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