

Compliance Document

No. D 102650 0024 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

Test report no.: 64290213032201

Date, 2021-06-16



(Billy Qiu)

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Model(s): **SMT-6K-TL-TH, SMT-8K-TL-TH,
SMT-10K-TL-TH**

Parameters:

Model	SMT-6K-TL-TH	SMT-8K-TL-TH	SMT-10K-TL-TH
PV input rating			
Rated input voltage	720Vd.c.		
Max. input voltage	1000Vd.c.		
MPPT voltage range	330-800Vd.c.		
MPPT voltage range (full load)	550-800Vd.c.		
Max. input current	2*11Ad.c.		
PV short circuit current	2*14Ad.c.		
Battery input/output rating			
Battery type	Lithium battery		
Rated voltage	500Vd.c.		
Battery voltage range	200V~800Vd.c.		
Max. charging power	6kW	8kW	10kW
Max. charging current	25Ad.c.		
Max. discharging power	6kW	8kW	10kW
Max. discharging current	25Ad.c.		
Grid input rating			
Rated input voltage	3/N/PE, 400/230Va.c.		
Rated grid frequency	50 Hz		
Max. input power	6kW	8kW	10kW
Rated input current	9.1Aa.c.	12.2Aa.c.	14.5Aa.c.
Grid output rating			
Rated output apparent power	6kVA	8kVA	10kVA
Rated output voltage	3/N/PE, 400/230Va.c.		
Rated output current	9.1Aa.c.	12.2Aa.c.	14.5Aa.c.
Rated output frequency	50 Hz		
Power factor	0.8 leading ~ 0.8 lagging		
Load output rating			
Rated output active power	6kW	8kW	10kW
Rated output voltage	3/N/PE, 400/230Va.c.		
Rated output current	9.1Aa.c.	12.2Aa.c.	14.5Aa.c.
Rated output frequency	50 Hz		

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License conditions:

1. For the Implementation of the requirements of the Commission Regulation (EU) 2016/631 of 14 April 2016 establishing a network code on the requirements for the connection of generating units to the network in Poland, the document issued by PTPIREE (dated 2020.03.20), named Conditions and procedures for the use of certificates in the process of connecting power generation modules to electricity grids (*PL: Warunki i procedury wykorzystania certyfikatów w procesie przyłączenia modułów wytwarzania energii do sieci elektroenergetycznych*) was considered for type A PPM (power park module);
2. The requirements of the Commission Regulation (EU) 2016/631 of 14 April 2016 with Poland deviation issued by PSE S.A. (dated 2018.12.18), named General application requirements resulting from the Commission Regulation (EU) 2016/631 of April 14, 2016 establishing the code networks concerning the requirements for connecting generating units to the network (NC RfG) (*PL: Wymogi ogólnego stosowania wynikające z Rozporządzenia Komisji (UE) 2016/631 z dnia 14 kwietnia 2016 r. ustanawiającego kodeks sieci dotyczący wymogów w zakresie przyłączenia jednostek wytwórczych do sieci (NC RfG)*) were considered during the testing for type A PPM (power park module) in the test report;
3. European Standard EN 50549-1 is intended to serve as a technical reference for the definition of national requirements where the RfG European Network Code requirements allow flexible implementation. Herewith the EN 50549-1 with Poland deviation has included the requirements of above two national documents.

**Tested
according to:**

EN 50549-1:2019 (with Poland deviation)