ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

Product Service

CERTIFICATE

No. Z2 001965 0007 Rev. 02

Holder of Certificate: **Shenzhen Senergy Technology Co., Ltd.**
Room 405, Building A
Co-talent Creative Park
No.2, LiuXian Road, Block 68, Xin'an Street
Bao'an District
518101 Shenzhen
PEOPLE'S REPUBLIC OF CHINA

Certification Mark:

Safety tested · Production monitored · TÜV SÜD · IEC 62109-1 · PV Inverter · IEC 62109-2

Product: **Converter**
(PV grid-interactive inverter)

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition the certification holder must not transfer the certificate to third parties. See also notes overleaf.

Test report no.: 64290180422403

Valid until: 2025-01-02

Date, 2020-01-03 (Billy Qiu)

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Model(s): **PVT-SE3KTL, PVT-SE5KTL, SE 1KTL-S1, SE 1K5TL-S1, SE 2KTL-S1, SE 2K5TL-S1, SE 3KTL-S1, PV-3000S-V, PV-3600S-V, SE 3K6TL-S1, SE 3KTL-D1, SE 3K6TL-D1, SE 4KTL-D1, SE 4K6TL-D1, SE 5KTL-D1, PV-5000S-V, SE 6KTL-D1**

Parameters:

Model:	PVT-SE3KTL	PVT-SE5KTL
Maximum rated d.c. input voltage	600 Vd.c.	600 Vd.c.
PV input MPPT operating voltage range	70 ~ 580 Vd.c.	70 ~ 580 Vd.c.
Maximum operating PV input current	12,5 Ad.c.	10,4 ×2 Ad.c.
Maximum total PV array s-c current	15 Ad.c.	15 ×2 Ad.c.
a.c. output voltage range	230 Va.c.	230 Va.c.
Nominal a.c. output frequency	50 Hz	50 Hz
Maximum continuous a.c. output current	15,1 Aa.c.	25,2 Aa.c.
Nominal output active power P_n	3 kW	5 kW
Power factor	0,8 ind. ~ 0,8 cap.	0,8 ind. ~ 0,8 cap.
Temperature range	-25~+60°C	-25~+60°C
Degree of protection	IP 65	IP 65
Protection class	I	I

Model:	SE 1KTL-S1	SE 1K5TL-S1	SE 2KTL-S1	SE 2K5TL-S1
Maximum rated d.c. input voltage	600 Vd.c.	600Vd.c.	600 Vd.c.	600 Vd.c.
PV input MPPT operating voltage range	70 ~ 580 Vd.c.	70-580Vd.c.	70 ~ 580 Vd.c.	70 ~ 580 Vd.c.
Maximum operating PV input current	12,5 Ad.c.	12,5Ad.c.	12,5 Ad.c.	12,5 Ad.c.
Maximum total PV array s-c current	15 Ad.c.	15Ad.c.	15 Ad.c.	15 Ad.c.
a.c. output voltage range	230 Va.c.	220/230Va.c.	230 Va.c.	230 Va.c.
Nominal a.c. output frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Maximum continuous a.c. output current	4,8 Aa.c.	7,2 Aa.c	9,5 Aa.c.	11,9 Aa.c..
Nominal output active power P_n	1 kW	1.5kW	2 kW	2.5 kW
Power factor	0,8 ind. ~ 0,8 cap.	0,8 ind. ~0,8 cap.	0,8 ind. ~ 0,8 cap.	0,8 ind. ~ 0,8 cap.
Temperature range	-25~+60°C	-25~+60°C	-25~+60°C	-25~+60°C
Degree of protection	IP 65	IP 65	IP 65	IP 65
Protection class	I	I	I	I

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Model:	SE 3KTL-S1	PV-3000S-V	SE 3K6TL-S1	PV-3600S-V
Maximum rated d.c. input voltage	600 Vd.c.	600 Vd.c.	600 Vd.c.	600 Vd.c.
PV input MPPT operating voltage range	70 ~ 580 Vd.c.	70 ~ 580 Vd.c.	70 ~ 580 Vd.c.	70 ~ 580 Vd.c.
Maximum operating PV input current	12,5 Ad.c.	11 Ad.c.	11 Ad.c.	11 Ad.c.
Maximum total PV array s-c current	15 Ad.c.	15 Ad.c.	15 Ad.c.	15 Ad.c.
a.c. output voltage range	230 Va.c.	220/230Va.c.	230 Va.c.	220/230Va.c.
Nominal a.c. output frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Maximum continuous a.c. output current	14,3 Aa.c..	17,2 Aa.c.	14,3 Aa.c.	16,7 Aa.c.
Nominal output active power P_n	3 kW	3.6 kW	3 kW	3.68 kW
Power factor	0,8 ind. ~ 0,8 cap.	0,8 ind. ~ 0,8 cap.	0,8 ind. ~ 0,8 cap.	0,8 ind. ~ 0,8 cap.
Temperature range	-25~+60°C	-25~+60°C	-25~+60°C	-25~+60°C
Degree of protection	IP 65	IP 65	IP 65	IP 65
Protection class	I	I	I	I

Model:	SE 3KTL-D1	SE 3K6TL-D1	SE 4KTL-D1	SE 4K6TL-D1
Maximum rated d.c. input voltage	600 Vd.c.	600 Vd.c.	600 Vd.c.	600 Vd.c.
PV input MPPT operating voltage range	70 ~ 580 Vd.c.	70 ~ 580 Vd.c.	70 ~ 580 Vd.c.	70 ~ 580 Vd.c.
Maximum operating PV input current	11 × 2 Ad.c.	11 ×2 Ad.c.	11 ×2 Ad.c.	11 ×2 Ad.c.
Maximum total PV array s-c current	15 × 2 Ad.c.	15 × 2 Ad.c.	15 × 2 Ad.c.	15 × 2 Ad.c.
a.c. output voltage range	230 Va.c.	230 Va.c.	230 Va.c.	230 Va.c.
Nominal a.c. output frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Maximum continuous a.c. output current	14,3 Aa.c.	16,7 Aa.c.	19,1 Aa.c.	21,95 Aa.c.
Nominal output active power P_n	3 kW	3.68 kW	4.0 kW	4.6 kW
Power factor	0,8 ind. ~ 0,8 cap.	0,8 ind. ~ 0,8 cap.	0,8 ind. ~ 0,8 cap.	0,8 ind. ~ 0,8 cap.
Temperature range	-25~+60°C	-25~+60°C	-25~+60°C	-25~+60°C
Degree of protection	IP 65	IP 65	IP 65	IP 65
Protection class	I	I	I	I

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Model:	SE 5KTL-D1	SE 6KTL-D1	PV-5000S-V
Maximum rated d.c. input voltage	600 Vd.c.	600 Vd.c.	600Vd.c.
PV input MPPT operating voltage range	70 ~ 580 Vd.c.	70 ~ 580 Vd.c.	70 ~ 580 Vd.c.
Maximum operating PV input current	11 ×2 Ad.c.	11 ×2 Ad.c.	11 x2 Ad.c.
Maximum total PV array s-c current	15 × 2 Ad.c.	15 × 2 Ad.c.	15 x2 Ad.c.
a.c. output voltage range	230 Va.c.	230 Va.c.	220/230 Va.c.
Nominal a.c. output frequency	50/60 Hz	50/60 Hz	50/60 Hz
Maximum continuous a.c. output current	23,8 Aa.c.	28,6 Aa.c.	23,8 Aa.c
Nominal output active power P_n	5.0 kW	6.0 kW	5.0kW
Power factor	0,8 ind. ~ 0,8 cap.	0,8 ind. ~ 0,8 cap.	0,8 ind. ~ 0,8 cap.
Temperature range	-25~+60°C	-25~+60°C	-25~+60°C
Degree of protection	IP 65	IP 65	IP 65
Protection class	I	I	I

Tested according to:

IEC 62109-1(ed.1)
EN 62109-1:2010
IEC 62109-2(ed.1)
EN 62109-2:2011

Production Facility(ies):

087538

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