



Product Service

CERTIFICATE

No. Z2 087538 0001 Rev. 00

Holder of Certificate: **Shenzhen Senergy Technology Co., Ltd.**
Block D, BC Park, No.18, Xiusha Rd.
Shatian Kengzi Sub-district
Pingshan District
518112 Shenzhen
PEOPLE'S REPUBLIC OF CHINA

Certification Mark:



Product: **Converter
(Grid-Tied Solar 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. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the testing and certification regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.: 64290180423207

Valid until: 2027-11-22

Date, 2022-11-23

(Billy Qiu)

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Model(s):

**SE 17KTL-D3, SE 20KTL-D3, SE 22KTL-D3,
 SE 25KTL-D3, SE 28KTL-D3, SE 30KTL-D3
 VP 17KTL-D3, VP 20KTL-D3, VP 22KTL-D3,
 VP 25KTL-D3, VP 28KTL-D3, VP 30KTL-D3
 SE 17KTL-D3/EU, SE 20KTL-D3/EU,
 SE 22KTL-D3/EU, SE 25KTL-D3/EU,
 SE 28KTL-D3/EU, SE 30KTL-D3/EU,
 SE 30KTL-D3/EU-CSB
 PV-22000S-U, PV-30000S-U
 SE 16KTL-DL3, SE 18KTL-DL3**

Parameters:

Model:	SE 17KTL-D3	SE 20KTL-D3	SE 22KTL-D3	SE 25KTL-D3	SE 28KTL-D3	SE 30KTL-D3
Maximum rated d.c. input voltage	1000 Vd.c.	1000 Vd.c.	1000 Vd.c.	1000 Vd.c.	1000 Vd.c.	1000 Vd.c.
PV input operating voltage range	180 - 1000 Vd.c.	180 - 1000 Vd.c.	180 - 1000 Vd.c.	180 - 1000 Vd.c.	180 - 1000 Vd.c.	180 - 1000 Vd.c.
Maximum operating PV input current	27 × 2 Ad.c.	27 × 2 Ad.c.	27 × 2 Ad.c.	40.5 × 2 Ad.c.	40.5 × 2 Ad.c.	40.5 × 2 Ad.c.
Maximum total PV array s-c current	30 × 2 Ad.c.	30 × 2 Ad.c.	30 × 2 Ad.c.	45 × 2 Ad.c.	45 × 2 Ad.c.	45 × 2 Ad.c.
Rated a.c. output voltage	3/N/PE, 400/230 Va.c.	3/N/PE, 400/230 Va.c.	3/N/PE, 400/230 Va.c.	3/N/PE, 400/230 Va.c.	3/N/PE, 400/230 Va.c.	3/N/PE, 400/230 Va.c.
Nominal a.c. output frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Maximum continuous a.c. output current	28.3 Aa.c.	33.5 Aa.c.	35 Aa.c.	40 Aa.c.	45 Aa.c.	48 Aa.c.
Nominal output active power P _n	17 kW	20 kW	22 kW	25 kW	28 kW	30 kW
Power factor	0.8 ind. - 0.8 cap.					
Protection class	I					
Ingress protection	IP65					
Temperature	-25°C ~ +60°C (derating at 45°C)					
Altitude	up to 4000 m					

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Model:	VP 17KTL-D3	VP 20KTL-D3	VP 22KTL-D3	VP 25KTL-D3	VP 28KTL-D3	VP 30KTL-D3
Maximum rated d.c. input voltage	1000 Vd.c.	1000 Vd.c.	1000 Vd.c.	1000 Vd.c.	1000 Vd.c.	1000 Vd.c.
PV input operating voltage range	180 - 1000 Vd.c.	180 - 1000 Vd.c.	180 - 1000 Vd.c.	180 - 1000 Vd.c.	180 - 1000 Vd.c.	180 - 1000 Vd.c.
Maximum operating PV input current	27 × 2 Ad.c.	27 × 2 Ad.c.	27 × 2 Ad.c.	40.5 × 2 Ad.c.	40.5 × 2 Ad.c.	40.5 × 2 Ad.c.
Maximum total PV array s-c current	30 × 2 Ad.c.	30 × 2 Ad.c.	30 × 2 Ad.c.	45 × 2 Ad.c.	45 × 2 Ad.c.	45 × 2 Ad.c.
Rated a.c. output voltage	3/N/PE, 400/230 Va.c.	3/N/PE, 400/230 Va.c.	3/N/PE, 400/230 Va.c.	3/N/PE, 400/230 Va.c.	3/N/PE, 400/230 Va.c.	3/N/PE, 400/230 Va.c.
Nominal a.c. output frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Maximum continuous a.c. output current	28.3 Aa.c.	33.5 Aa.c.	35 Aa.c.	40 Aa.c.	45 Aa.c.	48 Aa.c.
Nominal output active power P _n	17 kW	20 kW	22 kW	25 kW	28 kW	30 kW
Power factor	0.8 ind. - 0.8 cap.					
Protection class	I					
Ingress protection	IP65					
Temperature	-25°C ~ +60°C (derating at 45°C)					
Altitude	up to 4000 m					

Model:	SE 17KTL-D3/EU	SE 20KTL-D3/EU	SE 22KTL-D3/EU	SE 25KTL-D3/EU	SE 28KTL-D3/EU	SE 30KTL-D3/EU, SE 30KTL-D3/EU-CSB
Maximum rated d.c. input voltage	1000 Vd.c.	1000 Vd.c.	1000 Vd.c.	1000 Vd.c.	1000 Vd.c.	1000 Vd.c.
PV input operating voltage range	180 - 1000 Vd.c.	180 - 1000 Vd.c.	180 - 1000 Vd.c.	180 - 1000 Vd.c.	180 - 1000 Vd.c.	180 - 1000 Vd.c.
Maximum operating PV input current	27 × 2 Ad.c.	27 × 2 Ad.c.	27 × 2 Ad.c.	40.5 × 2 Ad.c.	40.5 × 2 Ad.c.	40.5 × 2 Ad.c.
Maximum total PV array s-c current	30 × 2 Ad.c.	30 × 2 Ad.c.	30 × 2 Ad.c.	45 × 2 Ad.c.	45 × 2 Ad.c.	45 × 2 Ad.c.
Rated a.c. output voltage	3/N/PE, 400/230 Va.c.	3/N/PE, 400/230 Va.c.	3/N/PE, 400/230 Va.c.	3/N/PE, 400/230 Va.c.	3/N/PE, 400/230 Va.c.	3/N/PE, 400/230 Va.c.
Nominal a.c. output frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Maximum continuous a.c. output current	28.3 Aa.c.	33.5 Aa.c.	35 Aa.c.	40 Aa.c.	45 Aa.c.	48 Aa.c.
Nominal output active power P _n	17 kW	20 kW	22 kW	25 kW	28 kW	30 kW
Power factor	0.8 ind. - 0.8 cap.					
Protection class	I					
Ingress protection	IP65					
Temperature	-25°C ~ +60°C (derating at 45°C)					
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Model:	PV-22000S-U	PV-30000S-U
Maximum rated d.c. input voltage	1000 Vd.c.	1000 Vd.c.
PV input operating voltage range	180 - 1000 Vd.c.	180 - 1000 Vd.c.
Maximum operating PV input current	27 × 2 Ad.c.	40.5 × 2 Ad.c.
Maximum total PV array s-c current	30 × 2 Ad.c.	42 × 2 Ad.c.
Rated a.c. output voltage	3/N/PE, 400/230Va.c.	3/N/PE, 400/230Va.c.
Nominal a.c. output frequency	60 Hz	60 Hz
Maximum continuous a.c. output current	35 Aa.c.	48 Aa.c.
Nominal output active power P _n	22 kW	30 kW
Power factor	0.8 ind. - 0.8 cap.	
Protection class	I	
Ingress protection	IP65	
Temperature	-25°C ~ +60°C (derating at 45°C)	
Altitude	up to 4000 m	

Model:	SE 16KTL-DL3	SE 18KTL-DL3
Maximum rated d.c. input voltage	800 Vd.c.	800 Vd.c.
PV input operating voltage range	180 - 800 Vd.c.	180 - 800 Vd.c.
Maximum operating PV input current	40.5 × 2 Ad.c.	40.5 × 2 Ad.c.
Maximum total PV array s-c current	45 × 2 Ad.c.	45 × 2 Ad.c.
Rated a.c. output voltage	3/N/PE, 220/128Va.c.	3/N/PE, 220/128Va.c.
Nominal a.c. output frequency	60 Hz	60 Hz
Maximum continuous a.c. output current	42 Aa.c.	48 Aa.c.
Nominal output active power P _n	16 kW	18 kW
Power factor	0.8 ind. - 0.8 cap.	
Protection class	I	
Ingress protection	IP65	
Temperature	-25°C ~ +60°C (derating at 45°C)	
Altitude	up to 4000 m	



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**Tested
according to:**

IEC 62109-1:2010
EN 62109-1:2010
IEC 62109-2:2011
EN 62109-2:2011