



Product Service

# CERTIFICATE

No. Z2 001965 0009 Rev. 05

**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:**



**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](http://www.tuvsud.com/ps-cert)

**Test report no.:** 64290180423206

**Valid until:** 2027-05-10

**Date,** 2022-05-11

( Billy Qiu )

# CERTIFICATE

No. Z2 001965 0009 Rev. 05

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					

# CERTIFICATE

No. Z2 001965 0009 Rev. 05

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 <sub>n</sub>	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 <sub>n</sub>	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					

# CERTIFICATE

No. Z2 001965 0009 Rev. 05

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 <sub>n</sub>	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 <sub>n</sub>	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	

**Tested  
according to:**

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