



Product Service

CERTIFICATE

No. Z2 087538 0021 Rev. 02

Holder of Certificate: **Shenzhen Senergy Technology Co., Ltd.**
Block D, BC Park, No.18, Xiusha Rd.
Shatian Kengzi Sub-district
Pingshan District
518122 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, Certification, Validation and Verification Regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.: 64290203091106

Valid until: 2029-08-18

Date, 2024-08-30

(Billy Qiu)

ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ CERTIFICADO ◆ CERTIFICAT

CERTIFICATE

No. Z2 087538 0021 Rev. 02

Model(s):

SE 1.5KTL-S1/G2P, SE 2KTL-S1/G2P,
SE 3KTL-S1/G2P, SE 3.6KTL-S1/G2P,
SE 3.68KTL-D1/G2P, SE 4KTL-D1/G2P,
SE 4.6KTL-D1/G2P, SE 5KTL-D1/G2P,
SE 6KTL-D1/G2P
VP 2KTL-S1/G2P, VP 3KTL-S1/G2P,
VP 3.6KTL-S1/G2P
SE 3.68KTL-D1/G2R, SE 4KTL-D1/G2R,
SE 4.6KTL-D1/G2R,
SE 5KTL-D1/G2R, SE 6KTL-D1/G2R,
SE 1.5KTL-S1/G2R, SE 2KTL-S1/G2R,
SE 3KTL-S1/G2R, SE 3.6KTL-S1/G2R,
SE 4KTL-S1/G2R, SE 4.6KTL-S1/G2R,
SE 5KTL-S1/G2R, SE 5.5KTL-S1/G2R,
SE 6KTL-S1/G2R
VP 2KTL-S1/G2R, VP 3KTL-S1/G2R,
VP 3.6KTL-S1/G2R
SE 6KTL-D1/G2

CERTIFICATE

No. Z2 087538 0021 Rev. 02

Parameters:

Model	SE 1.5KTL- S1/G2P	SE 2KTL- S1/G2P	SE 3KTL- S1/G2P	SE 3.6KTL- S1/G2P	SE 3.68KTL- D1/G2P	SE 4KTL- D1/G2P	SE 4.6KTL- D1/G2P	SE 5KTL- D1/G2P	SE 6KTL- D1/G2P
PV terminal									
Vmax. PV	500Vd.c.				550Vd.c.				
MPPT Voltage Range	50-490Vd.c.				70-540Vd.c.				
MPPT Voltage Range (full load)	100 ~ 430 Vd.c.	140 ~ 430 Vd.c.	210 ~ 430 Vd.c.	250 ~ 430 Vd.c.	120 ~ 480 Vd.c.	140 ~ 480 Vd.c.	160 ~ 480 Vd.c.	170 ~ 480 Vd.c.	210 ~ 480 Vd.c.
MPPT Tracker number	1				2				
Max. continuous PV input current per tracker	15Ad.c.				15/15Ad.c.				
Isc PV per tracker	20Ad.c.				20/20Ad.c.				
Grid terminal									
Rated voltage	220/230/240 Va.c.								
Rated frequency	50/60 Hz								
Maximum continuous output current	7.5 Aa.c.	10 Aa.c.	15 Aa.c.	16 Aa.c.	18.4 Aa.c.	20 Aa.c.	23 Aa.c.	25 Aa.c.	27.3 Aa.c.
Rated output current	6.8/6.5 /6.3 Aa.c.	9.1/8.7 /8.3 Aa.c.	13.6/13.0 /12.5 Aa.c.	16/15.7 /15.0 Aa.c.	16.7/16 /15.3 Aa.c.	18.2/17.4 /16.7 Aa.c.	20.9/ 20.0 /19.2 Aa.c.	22.7 /21.7 /20.8 Aa.c.	27.3 /26.1 /25.0 Aa.c.
Maximum output current	7.5/7.2 /6.9 Aa.c.	10.0/9.6 /9.2 Aa.c.	15.0/14.3 /13.8 Aa.c.	16/15.7 /15.0 Aa.c.	18.4/17.6 /16.9 Aa.c.	20.0/19.1 /18.3 Aa.c.	23.0 /22.0 /21.0 Aa.c.	25.0 /23.9 /22.9 Aa.c.	27.3/ 26.1 /25.0 Aa.c.
Rated output power	1500W	2000W	3000W	3600W	3680W	4000W	4600W	5000W	6000W
Rated output Apparent power	1500VA	2000VA	3000VA	3600VA	3680VA	4000VA	4600VA	5000VA	6000VA
Maximum continuous output Apparent power	1650VA	2200VA	3300VA	3600VA	4048VA	4400VA	5060VA	5500VA	6000VA
Power factor (Cos phi), adjustable	0.8 leading ~ 0.8 lagging								
Enclosure	IP65								
Temperature Range	-25°C ~ +60°C (derating at 45°C)								
Protective Class	I								
Altitude	up to 4000 m								

CERTIFICATE

No. Z2 087538 0021 Rev. 02

Model	VP 2KTL-S1/G2P	VP 3KTL-S1/G2P	VP 3.6KTL-S1/G2P
PV terminal			
Vmax. PV	500Vd.c.		
MPPT Voltage Range	50-490Vd.c.		
MPPT Voltage Range (full load)	140 ~ 430Vd.c.	210 ~ 430Vd.c.	250 ~ 430Vd.c.
MPPT Tracker number	1		
Max. continuous PV input current per tracker	15Ad.c.		
Isc PV per tracker	20Ad.c.		
Grid terminal			
Rated voltage	220/230/240 Va.c.		
Rated frequency	50/60 Hz		
Maximum continuous output current	10Aa.c.	15Aa.c.	16Aa.c.
Rated output current	9.1/8.7/8.3 Aa.c.	13.6/13.0/12.5 Aa.c.	16/15.7/15.0 Aa.c.
Maximum output current	10.0/9.6/9.2 Aa.c.	15.0/14.3/13.8 Aa.c.	16/15.7/15.0 Aa.c.
Rated output power	2000W	3000W	3600W
Rated output Apparent power	2000VA	3000VA	3600VA
Maximum continuous output Apparent power	2200VA	3300VA	3600VA
Power factor (Cos phi), adjustable	0.8 leading ~ 0.8 lagging		
Enclosure	IP65		
Temperature Range	-25°C ~ +60°C (derating at 45°C)		
Protective Class	I		
Altitude	up to 4000 m		

CERTIFICATE

No. Z2 087538 0021 Rev. 02

Model	SE 3.68KTL-D1/G2R	SE 4KTL-D1/G2R	SE 4.6KTL-D1/G2R	SE 5KTL-D1/G2R	SE 6KTL-D1/G2R
PV terminal					
Vmax. PV	600Vd.c.				
MPPT Voltage Range	70-550Vd.c.				
MPPT Voltage Range (full load)	100-500 Vd.c.	110-500 Vd.c.	120-500 Vd.c.	130-500 Vd.c.	160-500 Vd.c.
MPPT Tracker number	2				
Max. continuous PV input current per tracker	20/20Ad.c.				
Isc PV per tracker	30/30Ad.c.				
Grid terminal					
Rated voltage	220/230/240 Va.c.				
Rated frequency	50/60 Hz				
Maximum continuous output current	18.4 Aa.c.	20.0 Aa.c.	23.0 Aa.c.	25.0 Aa.c.	27.3 Aa.c.
Rated output current	16.7/16.0/15.3 Aa.c.	18.2/17.4/16.7 Aa.c.	20.9/20.0/19.2 Aa.c.	22.7/21.7/20.8 Aa.c.	27.3/26.1/25.0 Aa.c.
Maximum output current	18.4Aa.c.	20.0Aa.c.	23.0Aa.c.	25.0Aa.c.	27.3Aa.c.
Rated output power	3680W	4000W	4600W	5000W	6000W
Rated output Apparent power	3680VA	4000VA	4600VA	5000VA	6000VA
Maximum continuous output Apparent power	4048VA	4400VA	5060VA	5500VA	6000VA
Power factor (Cos phi), adjustable	0.8 leading ~ 0.8 lagging				
Enclosure	IP65				
Temperature Range	-25°C ~ +60°C (derating at 45°C)				
Protective Class	I				
Altitude	up to 4000 m				

CERTIFICATE

No. Z2 087538 0021 Rev. 02

Model	SE 1.5KTL-S1/G2R	SE 2KTL-S1/G2R	SE 3KTL-S1/G2R	SE 3.6KTL-S1/G2R
PV terminal				
Vmax. PV	500Vd.c.			
MPPT Voltage Range	50-490Vd.c.			
MPPT Voltage Range (full load)	80-430 Vd.c.	110-430 Vd.c.	160-430 Vd.c.	190-430 Vd.c.
MPPT Tracker number	1			
Max. continuous PV input current per tracker	20 Ad.c.			
Isc PV per tracker	30 Ad.c.			
Grid terminal				
Rated voltage	220/230/240 Va.c.			
Rated frequency	50/60 Hz			
Maximum continuous output current	7.5 Aa.c.	10.0 Aa.c.	15.0 Aa.c.	16.0 Aa.c.
Rated output current	6.8/6.5/6.3 A.a.c	9.1/8.7/8.3 A.a.c	13.6/13.0/12.5 A.a.c	16.4 /15.7/15.0 A.a.c
Maximum output current	7.5 Aa.c.	10.0 Aa.c.	15.0 Aa.c.	16.0 Aa.c.
Rated output power	1500W	2000W	3000W	3600W
Rated output Apparent power	1500VA	2000VA	3000VA	3600VA
Maximum continuous output Apparent power	1650VA	2200VA	3300VA	3600VA
Power factor (Cos phi), adjustable	0.8 leading ~ 0.8 lagging			
Enclosure	IP65			
Temperature Range	-25°C ~ +60°C (derating at 45°C)			
Protective Class	I			
Altitude	up to 4000 m			

CERTIFICATE

No. Z2 087538 0021 Rev. 02

Model	SE 4KTL-S1/G2R	SE 4.6KTL-S1/G2R	SE 5KTL-S1/G2R	SE 5.5KTL-S1/G2R	SE 6KTL-S1/G2R
PV terminal					
Vmax. PV	600Vd.c.				
MPPT Voltage Range	70-550Vd.c.				
MPPT Voltage Range (full load)	210-500 Vd.c.	240-500 Vd.c.	260-500 Vd.c.	290-500 Vd.c.	320-500 Vd.c.
MPPT Tracker number	1				
Max. continuous PV input current per tracker	20/20Ad.c.				
Isc PV per tracker	30/30Ad.c.				
Grid terminal					
Rated voltage	220/230/240 Va.c.				
Rated frequency	50/60 Hz				
Maximum continuous output current	20.0 Aa.c.	23.0 Aa.c.	25.0 Aa.c.	27.3 Aa.c.	27.3 Aa.c.
Rated output current	18.2/17.4/16.7 A.a.c.	20.9/20.0/19.2 A.a.c.	22.7/21.7/20.8 A.a.c.	25.0/23.9/22.9 A.a.c.	27.3/26.1/25.0 A.a.c.
Maximum output current	20.0 Aa.c.	23.0 Aa.c.	25.0 Aa.c.	27.3 Aa.	27.3Aa.c.
Rated output power	4000W	4600W	5000W	5500W	6000W
Rated output Apparent power	4000VA	4600VA	5000VA	5500VA	6000VA
Maximum continuous output Apparent power	4400VA	5060VA	5500VA	6000VA	6000VA
Power factor (Cos phi), adjustable	0.8 leading ~ 0.8 lagging				
Enclosure	IP65				
Temperature Range	-25°C ~ +60°C (derating at 45°C)				
Protective Class	I				
Altitude	up to 4000 m				

CERTIFICATE

No. Z2 087538 0021 Rev. 02

Model	VP 2KTL-S1/G2R	VP 3KTL-S1/G2R	VP 3.6KTL-S1/G2R
PV terminal			
Vmax. PV	500 Vd.c.		
MPPT Voltage Range	50-490 Vd.c.		
MPPT Voltage Range (full load)	110-430 Vd.c.	160-430 Vd.c.	190-430 Vd.c.
MPPT Tracker number	1		
Max. continuous PV input current per tracker	20 Ad.c.		
Isc PV per tracker	30 Ad.c.		
Grid terminal			
Rated voltage	220/230/240 Va.c.		
Rated frequency	50/60 Hz		
Maximum continuous output current	10Aa.c.	15Aa.c.	16Aa.c.
Rated output current	9.1/8.7/8.3 A.a.c	13.6/13.0/12.5 A.a.c	16.4/15.7/15.0 A.a.c
Maximum output current	10.0/9.6/9.2 Aa.c.	15.0/14.3/13.8 Aa.c.	16/15.7/15.0 Aa.c.
Rated output power	2000W	3000W	3600W
Rated output Apparent power	2000VA	3000VA	3600VA
Maximum continuous output Apparent power	2200VA	3300VA	3600VA
Power factor (Cos phi), adjustable	0.8 leading ~ 0.8 lagging		
Enclosure	IP65		
Temperature Range	-25°C ~ +60°C (derating at 45°C)		
Protective Class	I		
Altitude	up to 4000 m		

CERTIFICATE

No. Z2 087538 0021 Rev. 02

Model	SE 6KTL-D1/G2
PV terminal	
Vmax. PV	550Vd.c.
MPPT Voltage Range	70-540Vd.c.
MPPT Voltage Range (full load)	280 ~ 480Vd.c.
MPPT Tracker number	2
Max. continuous PV input current per tracker	13/13Ad.c.
Isc PV per tracker	15/15Ad.c.
Grid terminal	
Rated voltage	220/230/240 Va.c.
Rated frequency	50/60 Hz
Maximum continuous output current	27.3Aa.c.
Rated output current	27.3/26.1/25.0 Aa.c.
Maximum output current	27.3/26.1/25.0 Aa.c.
Rated output power	6000W
Rated output Apparent power	6000VA
Maximum continuous output Apparent power	6000VA
Power factor (Cos phi), adjustable	0.8 leading ~ 0.8 lagging
Enclosure	IP65
Temperature Range	-25°C ~ +60°C (derating at 45°C)
Protective Class	I
Altitude	up to 4000 m

Tested according to:

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