

SE 7.5/8/10/10.5KTL-T1

Application: Residential Use



Superior Performance

- Maximum efficiency of 98.2%
- Large string current, compatible with large PV modules
- Wide voltage range, compatible with various power grids



High Reliability

- IP66 protection level for outdoor installation
- Optional: DC/AC Type II SPD
- Optional: AFCI 2.0 function



Intelligent Maintenance

- Power consumption monitoring
- Remote configuration and upgrade
- Quick commissioning via mobile app
- Multiple I/O and communication configurations



SINGLE
PHASE &
TRIPLE
MPPT



SE 7K5TL-T1

SE 8KTL-T1

SE 10KTL-T1

SE 10K5TL-T1

Efficiency

Max. Efficiency	98.2%
Eur. Efficiency	97.5%

Input (PV)

Max. Input Voltage	550V
Max. PV Configuration (STC)	150%
Rated Input Voltage	360V
Max. Input Current	20A/20A/20A
Max. Short Circuit Current	30A/30A/30A
Start Input Voltage	50V
MPPT Operating Voltage Range	40V-540V
Number of MPPTs	3
No. of PV Strings	1/1/1

Output (Grid)

Rated AC Active Power	7,500W	8,000W	10,000W	10,500W
Max. AC Apparent Power	8,250VA	8,800VA	11,000VA	11,550VA
Max. AC Output Current	35A	40A	50A	50A
Rated AC Voltage	220V/230V/240V, L+N+PE			
AC Voltage Range ^①	160V-300V (Adjustable)			
Rated Grid Frequency	50Hz/60Hz			
Grid Frequency Range ^②	45Hz-55Hz/55Hz-65Hz (Adjustable)			
THDI	<3%@Rated Power			
DC Current Injection	<0.5%@Rated Current			
Power Factor	> 0.99@Rated power (Adjustable 0.8 LD - 0.8 LG)			

Protection

DC Switch	Yes
Anti-Islanding Protection	Yes
AC Overcurrent Protection	Yes
AC Short Circuit Protection	Yes
DC Reverse Protection	Yes
Surge Arrester	DC Type III (Type II optional)/AC Type III (Type II optional)
Insulation Detection	Yes
Leakage Current Protection	Yes
AFCI 2.0	Optional
PID Recovery	Optional
String Intelligent Monitoring	Yes
Consumption Monitoring	Optional

General

Topology	Transformerless
IP Rating	IP66
Night Self Consumption	<1W (Standard)
Cooling Method	Natural Cooling
Operating Temperature Range	-25 C -60 C
Relative Humidity Range	0-100%
Max. Operating Altitude	4000m
Dimensions (W*H*D)	339mm*313mm*170mm
Weight	10Kg

HMI & COM

Display	Wireless & APP+LED, LCD (Optional)
Communication Interface	RS485/Wi-Fi/4G/LAN

Certification

Safety	IEC 62109-1, IEC 62109-2
Grid Code	IEC 61727/62116, PORTARIA n°140, PORTARIA n°515
Warranty	5 Years/10 Years (Optional)

Remarks: · ^{①②}The range of output voltage and frequency may vary depending on different grid codes.
· Specifications are subject to change without advanced notice.

