

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.