

- MAX. EFFICIENCY 98.8%
- IP66 PROTECTION

STT 15~37.5kW

Three Phase | 4 MPPTs | On Grid (LV)



- High reliability due to good heat dissipation design
- Integrated lightning protection for both DC and AC
- Adapt to complex grid environments
- High anti-corrosion ability with aluminum alloy enclosure
- Wider working temperature and altitude, adapt to various installation environments

SAFE & RELIABLE



- High yield with Max. Efficiency 98.8%
- European weighted efficiency 98.3%
- Up to 10% continuous output overloading capacity
- 4 MPPT design, lower PV string mismatch loss

HIGH YIELD



- String monitoring, improve O&M efficiency
- Support wireless and wired internet connection (RS485, WiFi/GPRS/LAN optional)
- Remote upgrading available

EASY TO USE



Model	STT-15KTL-LV	STT-20KTL-LV	STT-25KTL-LV	STT-30KTL-LV	STT-37.5KTL-LV
Input					
Max. Input Power (W)	24,000	32,000	40,000	48,000	60,000
Start-up Voltage (V)	180	180	180	180	180
Max. DC Input Voltage (V)	600	600	600	600	600
Rated DC Input Voltage (V)	360	360	360	360	360
MPPT Voltage Range(V)	180-550	180-550	180-550	180-550	180-550
Full power MPPT voltage range (V)	180-550	180-550	220-550	250-550	300-550
No. of MPP Trackers	4	4	4	4	4
No. of DC Inputs per MPPT	2	2	2	2	2
Max.Input Current(A)	32/32/32/32	32/32/32/32	32/32/32/32	32/32/32/32	32/32/32/32
Max. Short-circuit Current (A)	40/40/40/40	40/40/40/40	40/40/40/40	40/40/40/40	40/40/40/40
Output					
Rated Output Power (W)**	15,000	20,000	25,000	30,000	37,500
Max. Output Power (W)	16,500	22,000	27,500	33,000	37,500
AC Output Rated Apparent Power (VA)	15,000	20,000	25,000	30,000	37,500
Max. Apparent Power (VA)	16,500	22,000	27,500	33,000	37,500
Grid Type (V)**	3 L/N/ PE, 127/ 220V				
Rated AC Frequency (Hz)	50/60	50/60	50/60	50/60	50/60
AC Output Rated Current (A)	40.0	52.5	65.6	78.7	98.4
Max. Output Current (A)	43.3	57.7	72.2	86.6	98.4
The measured Inrush current (A)	16.5A@10.6ms	16.5A@10.6ms	16.5A@10.6ms	16.5A@10.6ms	16.5A@10.6ms
maximum output fault current (A)	118	118	160	180	180
maximum output overcurrent protection (A)	118	118	160	180	180
Power Factor	0.8 leading...0.8 lagging				
THDi @ Rated Power	<3%				
DCI	<0.5%In				
Efficiency					
Max. Efficiency	98.8%	98.8%	98.8%	98.8%	98.8%
Euro Efficiency	98.3%	98.3%	98.3%	98.3%	98.3%
MPPT Efficiency	99.9%	99.9%	99.9%	99.9%	99.9%
Protection					
DC Reverse Polarity Protection	Integrated				
Insulation Resistance Detection	Integrated				
AFCI	Optional				
DC Switch	Integrated				
Surge Protection	Integrated				
Over-temperature Protection	Integrated				
Residual Current Protection	Integrated				
Anti-islanding protection	Integrated				
AC Short-circuit Protection	Integrated				
AC Over-voltage Protection	Integrated				
General Data					
Dimensions [W*H*D] (mm)	600*400*270				
Weight (kg)	42				
Protection Degree	IP66				
Self-consumption at Night (W)	<1				
Topology	Transformerless				
Operating Temperature Range (° C)	-30~60				
Relative Humidity (%)	0~100				
Operating Altitude (m)	3000				
Cooling	Smart Fan Cooling				
Display	OLED				
Communication	RS485, WiFi/ GPRS/LAN(Optional)				

** Due to differences in voltage values in various countries, minor variations may occur. The final interpretation rights belong to Sunways.