



- MAX. EFFICIENCY 98.6%
- IP66 PROTECTION

### STT 15~30kW

Three Phase | 1/2 MPPTs | On Grid

- Integrated surge protection for both DC and AC
- IP66 design ensures reliable performance for outdoor applications
- Integrated AFCI Functionality for Enhanced Safety
- Capable of operating flawlessly under phase shifts and harmonic grids

SAFE & RELIABLE



- High yield with Max. Efficiency 98.6% , European weighted efficiency 98.2%
- Up to 150% Oversizing of Attached PV Arrays for Increased Flexibility and Efficiency
- Increased PV panels current to 20A and MPPT switching frequency to 20KHz, reducing overall weight
- Up to 10% continuous output overloading capacity

HIGH YIELD



- Support wireless and wired internet connection (RS485, WiFi/GPRS/LAN optional)
- Remote upgrading available
- Real-time temperature monitoring and protection for multiple power transistors
- Effortless commissioning and monitoring through the Sunways Portal APP

EASY TO USE



Model	STT-15KTL-SE-S	STT-15KTL-SE	STT-20KTL-SE	STT-25KTL-SE	STT-30KTL-SE
<b>Input</b>					
Start-up Voltage (V)	180	180	180	180	180
Max. DC Input Voltage (V)	1100	1100	1100	1100	1100
Rated DC Input Voltage (V)	620	620	620	620	620
MPPT Voltage Range (V)	200-950	200-950	200-950	200-950	200-950
No. of MPP Trackers	1	2	2	2	2
No. of DC Inputs per MPPT	2	2/2	2/2	2/2	2/2
Max. Input Current (A)	40	40/40	40/40	40/40	40/40
Max. Short-circuit Current (A)	50	50/50	50/50	50/50	50/50
Backfeed current to the array (A)	0	0	0	0	0
<b>Output</b>					
Rated Output Power (W)	15000	15000	20,000	25000	30000
Max. Output Power (W)	16500	16500	22,000	27500	33000
AC output rated apparent power (VA)	15000	15000	20,000	25000	30000
Max. Apparent Power (VA)	16500	16500	22,000	27500	33000
Rated Output Voltage (V)	3 / N / PE, 230 / 400V				
Rated AC Frequency (Hz)	50/60	50/60	50/60	50/60	50/60
AC output rated current (A)	21.6	21.6	29	36.2	43.5
Max. Output Current (A)	23.8	23.8	31.9	39.8	47.8
maximum output fault current (A)	118	118	118	118	118
maximum output overcurrent protection (A)	118	118	118	118	118
Power Factor	0.8 leading ... 0.8 lagging				
THDi @ Rated Power	<3%				
DCI	<0.5%In				
<b>Efficiency</b>					
Max. Efficiency	98.6%	98.6%	98.6%	98.6%	98.6%
Euro Efficiency	98.2%	98.2%	98.2%	98.2%	98.2%
MPPT Efficiency	99.9%	99.9%	99.9%	99.9%	99.9%
<b>Protection</b>					
DC Reverse Polarity Protection	Integrated				
Insulation Resistance Protection	Integrated				
DC Switch	Optional				
AFCI	Optional				
Surge Protection	Integrated				
Over-temperature Protection	Integrated				
Residual Current Protection	Integrated				
Islanding protection	Integrated				
AC Short-circuit Protection	Integrated				
AC Over-voltage Protection	Integrated				
<b>General Data</b>					
Dimensions [W*H*D] (mm)	550*410*199				
Weight (kg)	27.4				
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	Fan Cooling				
Noise Level (dB)	<40				
Display	OLED & LED				
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.