sunways

STT Series



- MAX. EFFICIENCY 98.8%
- IP66 PROTECTION

STT 100~150kW

Three Phase | 10 MPPTs | ON Grid

INTELLIGENT

- Real-time fault curve recording, improve O&M efficiency
- IP66 intelligent fans, lower operation temperature, longer lifespan
- Intelligent quad-core processor, information processing more comprehensive, fast, and efficient

HIGH YIELD

- High yield with Max. efficiency 98.8%
- Up to 10% continuous output overloading capacity
- 10 MPPT design, lower PV string mismatch loss
- DC 2 in 1 connection enabled, compatible with high-power panels

CONVENIENCE

- Support wireless and wired internet connection (RS485, WiFi/GPRS/LAN optional)
- Remote upgrading available
- Fast and easy commissioning via App or OLED display

Model	STT-100KTL-SE	STT-110KTL-SE	STT-125KTL-SE	STT-136KTL-SE	STT-150KTL-SE
Input					
Max. Input Power (W)	160000	176000	200000	217600	240000
Start-up Voltage (V)	200	200	200	200	200
Max. DC Input Voltage (V)	1100	1100	1100	1100	1100
Rated DC Input Voltage (V)	620	620	620	620	620
MPPT Voltage Range (V)	200-1000	200-1000	200-1000	200-1000	200-1000
Number of MPP Trackers	10	10	10	10	10
Number of DC Inputs per MPPT	2	2	2	2	2
Max. Input Current (A)	10*40	10*40	10*40	10*40	10*40
Max. Short-circuit Current (A)	10*50	10*50	10*50	10*50	10*50
Output					
Rated Output Power (W)**	100,000	110,000	125,000	136,000	150,000
Max. Output Power (W)	110,000	121,000	136,000	149,600	165,000
AC output rated apparent power (VA)	100,000	110,000	125,000	136,000	150,000
Max. Apparent Power (VA)	110,000	121,000	136,000	149,600	165,000
Grid Type**	3L/N/PE，220/380V，230/400V				
Rated AC Frequency (Hz)	50/60	50/60	50/60	50/60	50/60
AC output rated current (A)	151.5	166.7	189.4	197	227.3
Max. Output Current (A)	166.7	183.3	206.1	226.7	250
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%
European 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 Protection	Integrated				
DC Switch	Optional				
Surge Protection	Integrated (Type II)				
Over-temperature Protection	Integrated				
Residual Current Protection	Integrated				
Islanding protection	Frequency shift, Integrated				
AC Short-circuit Protection	Integrated				
AC Over-voltage Protection	Integrated				
Intelligent string shutdown	Optional				
AFCI	Optional				
General Data					
Dimensions [W*H*D] (mm)	1025 * 640 * 320				
Weight (kg)	92				
Protection Degree	IP66				
Self-consumption at Night (W)	<1				
Topology	Transformerless				
Operating Temperature Range (° C)	-30~60				
Relative Humidity (%)	0~100				
Operating Altitude (m)	4000 (derating >3000)				
Cooling	Smart Fan Cooling				
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.