



- MAX. EFFICIENCY 98.8%
- IP66 PROTECTION

STT 130~170kW

Three Phase | 10 MPPTs | ON Grid

- 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

INTELLIGENT



- 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

HIGH YIELD



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

CONVENIENCE



Model	STT-130KTL-SE-HV	STT-145KTL-SE-HV	STT-165KTL-SE-HV	STT-170KTL-SE-HV
Input				
Start-up Voltage (V)	180	180	180	180
Max. DC Input Voltage (V)	1100	1100	1100	1100
Rated DC Input Voltage (V)	750	750	750	750
MPPT Voltage Range (V)	200-1000	200-1000	200-1000	200-1000
Number of MPP Trackers	10	10	10	10
Number of DC Inputs per MPPT	2	2	2	2
Max. Input Current (A)	10*40	10*40	10*40	10*40
Max. Short-circuit Current (A)	10*50	10*50	10*50	10*50
Output				
Rated Output Power (W)**	130,000	145,000	165,000	170,000
Max. Output Power (W)	143,000	159,500	181,500	187,000
AC output rated apparent power (VA)	130,000	145,000	165,000	170,000
Max. Apparent Power (VA)	143,000	159,500	181,500	187,000
Grid Type**	3L/N/PE, 288/500V			
Rated AC Frequency (Hz)	50/60	50/60	50/60	50/60
AC output rated current (A)	150.1	167.4	190.5	196.3
Max. Output Current (A)	165.1	184.2	209.6	230.9
Power Factor	0.8 leading ..0.8 lagging			
THDi @ Rated Power	<3%@Rated Output Power			
DCI	<0.5%In			
Efficiency				
Max. Efficiency	98.8%	98.8%	98.8%	98.8%
European Efficiency	98.3%	98.3%	98.3%	98.3%
MPPT Efficiency	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.