

Sunways

Sunways Three Phase with Dual MPPT
STT-4K/5K/6K/8K/10K/12K/15K/17K/20K/25KTL

MAX 98.6% EFFICIENCY

IP65 PROTECTION



Safe & Reliable

- High reliability due to good heat dissipation design
- IP65, wider working temperature and altitude, adapt to various installation environments
- Integrated lightening protection for both DC and AC
- Adapt to complex power grid
- High anti-corrosion ability with aluminum alloy die casting technology



High Revenue

- High yield with Max. 98.6% efficiency
- European weighted efficiency 98.2%
- Longer working hours due to the lower start-up voltage and wider MPPT range
- Up to 10% continuous output overloading capacity
- Dual MPPT design with precise MPPT algorithm
- Standard 5 years warranty, extendable to 10 or 15 years



Easy to use

- Can work in 3-phase 400V or 3-phase 220V power grid
- Compact elegant design, less than 25kg, easy for installation
- Support wireless and wired internet connection (RS485, Wi-Fi/GPRS/LAN optional)
- Remote upgrading available
- Intelligent positioning abnormal string with integrated I/V scan function

/// 3-PHASE 220V GRID

TECHNICAL PARAMETERS

THREE PHASE:STT-4K/5K/6K/8K/10K/12K/15K/17K/20K/25KTL

Model	STT-4KTL	STT-5KTL	STT-6KTL	STT-8KTL	STT-10KTL	STT-12KTL	STT-15KTL	STT-17KTL	STT-20KTL	STT-25KTL	
Input											
Max. Input Power (W)	2,860	3,575	4,290	5,720	7,150	8,580	10,725	12,155	14,300	17,875	
Start-up Voltage (V)	200	200	200	200	200	200	200	200	200	200	
Min. DC Voltage (V)	150	150	150	150	150	150	150	150	150	150	
Max. DC Input Voltage (V)	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	
Rated DC Input Voltage (V)	360	360	360	360	360	360	360	360	360	360	
MPPT Voltage Range (V)	200-850	200-850	200-850	200-850	200-850	200-850	200-850	200-850	200-850	200-850	
No. of MPP Trackers	2	2	2	2	2	2	2	2	2	2	
No. of DC Inputs per MPPT	1/1	1/1	1/1	1/1	1/1	1/1	1/2	2/2	2/2	2/2	
Max. Input Current (A)	11/11	11/11	11/11	11/11	11/11	11/11	11/22	22/22	22/22	22/22	
Max. Short-circuit Current (A)	15/15	15/15	15/15	15/15	15/15	15/15	15/30	30/30	30/30	30/30	
Output											
Rated Output Power (kW)	2.2	2.8	3.3	4.4	5.5	6.6	8.3	9.4	11	13.8	
Max. Output Power (kW)	2.4	3.0	3.6	4.8	6.1	7.3	9.1	10.3	12.1	13.8	
Max. Apparent Power (kVA)	2.4	3.0	3.6	4.8	6.1	7.3	9.1	10.3	12.1	13.8	
Rated Output Voltage (V)	3L/N/PE, 133/220V										
Rated AC Frequency (Hz)	50/60Hz 45-55Hz/55-65Hz										
Max. Output Current (A)	3.7	4.6	5.5	7.3	9.1	11	13.8	15.6	17.5	21.5	
Power Factor	0.8 leading ...0.8 lagging										
Max. Total Harmonic Distortion	< 3% @Rated Output Power										
DCI	< 0.5%In										
Efficiency											
Max. Efficiency	98.1%	98.1%	98.3%	98.3%	98.6%	98.6%	98.6%	98.6%	98.6%	98.6%	
European Efficiency	97.9%	97.9%	98.0%	98.0%	98.2%	98.2%	98.2%	98.2%	98.2%	98.2%	
MPPT Efficiency	99.9%	99.9%	99.9%	99.9%	99.9%	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										
Anti-islanding Protection	Integrated										
AC Short-circuit Protection	Integrated										
AC Over-voltage Protection	Integrated										
General Data											
Dimensions (mm)	550W*410H*175D										
Weight (kg)	22					25					
Protection Degree	IP65										
Self-consumption at Night (W)	< 1										
Topology	Transformer-less										
Operating Temperature Range (° C)	-30~60°C										
Relative Humidity	0~100%										
Operating Altitude (m)	4000 (derating@ > 3000)										
Cooling	Natural Convection							Smart Fan Cooling			
Noise Level (dB)	< 25					< 40					
Display	OLED & LED										
Communication	RS485, WiFi/GPRS/LAN (Optional)										
Compliance	NB/T32004, IEC62109, IEC62116, VDE4105, VDE0126, UTE C15-712-1, AS4777, C10/11, CEI0-21, RD1699, NBR16149, IEC61727, IEC60068, IEC61683, EN50549, EN61000										