

# *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 lightning 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



## Easy to use

- 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

# 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	
<b>Input</b>											
Max. Input Power (W)	5,200	6,500	7,800	10,400	13,000	15,600	19,500	22,100	26,000	32,500	
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)	620	620	620	620	620	620	620	620	620	620	
MPPT Voltage Range (V)	200-950	200-950	200-950	200-950	200-950	200-950	200-950	200-950	200-950	200-950	
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	
<b>Output</b>											
Rated Output Power (kW)	4	5	6	8	10	12	15	17	20	25	
Max. Output Power (kW)	4.4	5.5	6.6	8.8	11	13.2	16.5	18.7	22	25	
Max. Apparent Power (kVA)	4.4	5.5	6.6	8.8	11	13.2	16.5	18.7	22	25	
Rated Output Voltage (V)	3L/N/PE, 230/400V										
Rated AC Frequency (Hz)	50/60Hz 45-55Hz/55-65Hz										
Max. Output Current (A)	6.7	8.4	10	13.3	16.5	20	25	28.4	31.9	39	
Power Factor	0.8 leading ...0.8 lagging										
Max. Total Harmonic Distortion	< 3% @Rated Output Power										
DCI	< 0.5%In										
<b>Efficiency</b>											
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%	
<b>Protection</b>											
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										
<b>General Data</b>											
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										