

# *sunways*

Sunways Three Phase with Dual MPPT

STT-4K ~ 25KTL-P



MAX 98.6% EFFICIENCY

IP65 PROTECTION



SAFE & RELIABLE

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



HIGH YIELD

- 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
- With a max input current of 15A, compatible with high-power panels



EASY TO USE

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



Model	STT-4KTL-P	STT-5KTL-P	STT-6KTL-P	STT-8KTL-P	STT-10KTL-P	STT-12KTL-P	STT-15KTL-P	STT-17KTL-P	STT-20KTL-P	STT-25KTL-P	
<b>Input</b>											
Max. Input Power (W)	6,400	8,000	9,600	12,800	16,000	19,200	24,000	27,200	32,000	40,000	
Start-up Voltage (V)	180	180	180	180	180	180	180	180	180	180	
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)	160-1000	160-1000	160-1000	160-1000	160-1000	160-1000	160-1000	160-1000	160-1000	160-1000	
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)	15/15 <sup>①</sup>	15/15 <sup>①</sup>	15/15 <sup>①</sup>	15/15 <sup>①</sup>	15/15 <sup>①</sup>	15/15 <sup>①</sup>	15/30 <sup>①</sup>	30/30 <sup>①</sup>	30/30 <sup>①</sup>	30/30 <sup>①</sup>	
Max. Short-circuit Current (A)	20/20	20/20	20/20	20/20	20/20	20/20	20/40	40/40	40/40	40/40	
<b>Output</b>											
Rated Output Power (W)	4,000	5,000	6,000	8,000	10,000	12,000	15,000	17,000	20,000	25,000	
Max. Output Power (W)	4,400	5,500	6,600	8,800	11,000	13,200	16,500	18,700	22,000	25,000	
Max. Apparent Power (VA)	4,400	5,500	6,600	8,800	11,000	13,200	16,500	18,700	22,000	25,000	
Rated Output Voltage (V)	3L/N/PE, 230/400V (320-478V)										
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										
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)	23					26		29			
Protection Degree	IP65										
Self-consumption at Night (W)	< 1										
Topology	Transformer less										
Operating Temperature Range (° C)	-30~60										
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										

① Upgrade from 11A to 15A, the model name is different by adding suffix "-p"