

sunways

Sunways Single Phase with Dual MPPT
STS-7K/8KTL

MAX 98.1% 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. 98.1% efficiency
- European weighted efficiency 97.6%
- Wide MPPT voltage range
- Up to 10% continuous output overloading capacity
- Dual MPPT design with precise MPPT algorithm
- Standard 12 years product and labour warranty



Easy to use

- Compact elegant design, light weight, one-person installation
- Plug and play connectors, 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

Model	STS-7KTL	STS-8KTL
Input		
Max. Input Power (W)	10,500	12,000
Start-up Voltage (V)	80	80
Min. DC Voltage (V)	120	120
Max. DC Input Voltage (V)	600	600
Rated DC Input Voltage (V)	360	360
MPPT Voltage Range (V)	80-550	80-550
No. of MPP Trackers	2	2
No. of DC Inputs per MPPT	1/2	1/2
Max. Input Current (A)	13.5/27	13.5/27
Max. Short-circuit Current (A)	16/32	16/32
Output		
Rated Output Power (W)	7,000	8,000
Max. Output Power (W)	7,700	8,800
Max. Apparent Power (VA)	7,700	8,800
Rated Output Voltage (V)	220/230	
Rated AC Frequency (Hz)	50/60Hz 45-55Hz/55-65Hz	
Max. Output Current (A)	35	36.5
Power Factor	>0.99 (0.8 leading ...0.8 lagging adjustable)	
Max. Total Harmonic Distortion	<3% @Rated Output Power	
DCI	<0.5%In	
Efficiency		
Max. Efficiency	98.1%	98.1%
European Efficiency	>97.6%	>97.6%
MPPT Efficiency	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	Integrated	
AC Short-circuit Protection	Integrated	
AC Over-voltage Protection	Integrated	
General Data		
Dimensions (mm)	550W*410H*175D	
Weight (kg)	22	
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	
Noise Level (dB)	< 25	
Display	OLED & LED	
Communication	RS485/WiFi/GPRS/LAN (Optional)	
Compliance	IEC62109、IEC62116、AS4777、NBR16149、IEC61727、IEC60068、IEC61683、EN61000	