

sunways

Sunways Single Phase with Single MPPT
STS - 1K / 1.5K / 2K / 2.5K / 3KTL - S



MAX 97.5% 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.97.5% efficiency
- European weighted efficiency 97%
- Wide MPPT voltage range
- Up to 10% continuous output overloading capacity
- Single MPPT design with precise MPPT algorithm
- Standard 5 years warranty, extendable to 10 or 15 years



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

TECHNICAL PARAMETERS

SINGLE PHASE:STS-1K/1.5K/2K/2.5K/3KTL-S

Model	STS-1KTL-S	STS-1.5KTL-S	STS-2KTL-S	STS-2.5KTL-S	STS-3KTL-S
Input					
Max. Input Power (W)	1,300	1,950	2,600	3,250	3,900
Start-up Voltage (V)	60	60	60	60	60
Min. DC Voltage (V)	55	55	55	55	55
Max. DC Input Voltage (V)	500	500	500	500	500
Rated DC Input Voltage (V)	360	360	360	360	360
MPPT Voltage Range (V)	80-450	80-450	80-450	80-450	80-450
No. of MPP Trackers	1	1	1	1	1
No. of DC Inputs per MPPT	1	1	1	1	1
Max. Input Current (A)	12.5	12.5	12.5	12.5	12.5
Max. Short-circuit Current (A)	15	15	15	15	15
Output					
Rated Output Power (W)	1,000	1,500	2,000	2,500	3,000
Max. Output Power (W)	1,100	1,650	2,200	2,750	3,300
Max. Apparent Power (VA)	1,100	1,650	2,200	2,750	3,300
Rated Output Voltage (V)	220/230				
Rated AC Frequency (Hz)	50/60Hz 45-55Hz/55-65Hz				
Max. Output Current (A)	4.8	7.2	9.6	12	14.4
Power Factor	0.8 leading ...0.8 lagging				
Max. Total Harmonic Distortion	<3% @Rated Output Power				
DCI	<0.5%In				
Efficiency					
Max. Efficiency	97.3%	97.3%	97.5%	97.5%	97.5%
European Efficiency	96.4%	96.4%	97.0%	97.0%	97.0%
MPPT Efficiency	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				
Islanding Protection	Integrated				
AC Short-circuit Protection	Integrated				
AC Over-voltage Protection	Integrated				
General Data					
Dimensions (mm)	327W*297H*114D				
Weight (KG)	6.5				
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	NB/T32004、IEC62109、IEC62116、VDE4105、VDE0126、UTE C15-712-1、AS4777、C10/11、CEI0-21、RD1699、NBR16149、IEC61727、IEC60068、IEC61683、EN50549、EN61000				