

# ***sunways***

Sunways Single Phase with Single MPPT

STS - 1 K ~ 3.3 K T L - S - P

**MAX 97.5% 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. 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



**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/WiFi/GPRS/LAN optional)
- Remote upgrading available
- Fast and easy configuration via App or OLED display



# TECHNICAL PARAMETERS

# SINGLE PHASE:STS-1K~3.3KTL-S-P

Model	STS-1KTL-S-P	STS-1.5KTL-S-P	STS-2KTL-S-P	STS-2.5KTL-S-P	STS-3KTL-S-P	STS-3.3KTL-S-P*
<b>Input</b>						
Max. Input Power (W)	1,600	2,400	3,200	4,000	4,800	4,800
Start-up Voltage (V)	60	60	60	60	60	60
Min. DC Voltage (V)	55	55	55	55	55	55
Max. DC Input Voltage (V)	500	500	500	500	500	500
Rated DC Input Voltage (V)	360	360	360	360	360	360
MPPT Voltage Range (V)	80-450	80-450	80-450	80-450	80-450	80-450
Number of MPP Trackers	1	1	1	1	1	1
Number of DC Inputs per MPPT	1	1	1	1	1	1
Max. Input Current (A)	16	16	16	16	16	16
Max. Short-circuit Current (A)	20	20	20	20	20	20
<b>Output</b>						
Rated Output Power (W)	1,000	1,500	2,000	2,500	3,000	3,300
Max. Output Power (W)	1,100	1,650	2,200	2,750	3,300	3,300
Max. Apparent Power (VA)	1,100	1,650	2,200	2,750	3,300	3,300
Rated Output Voltage (V)	220/230(180-280V; L+N+PE)					
Rated AC Frequency (Hz)	50/60Hz 45-55Hz/55-65Hz					
Max. Output Current (A)	4.8	7.2	9.6	12	14.4	14.4
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	97.3%	97.3%	97.5%	97.5%	97.5%	97.5%
European Efficiency	96.4%	96.4%	97.0%	97.0%	97.0%	97.0%
MPPT Efficiency	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)	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	IEC62109, EN61000, C10/C11, VDE4105, VDE0126, EN50549, NRS097-2, UNE217001, UNE217002, RD647, RD1699, CEI-021, IEC61727, IEC60068, IEC61683					