

sunways

STS Series



- MAX 98.1% EFFICIENCY
- IP65 PROTECTION

STS 3.3~6kW

Single Phase | 2 MPPTs | ON Grid

- 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

SAFE & RELIABLE



- High yield with Max. 98.1% efficiency
- European weighted efficiency 97.5%
- Wide MPPT voltage range
- Up to 10% continuous output overloading capacity
- With a max input current of 15A, compatible with high-power panels

HIGH YIELD



- 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

EASY TO USE



Model	STS-3.3KTL-S	STS-3.6KTL	STS-4.2KTL	STS-4.6KTL	STS-5KTL	STS-6KTL
Input						
Max. Input Power (W)	4,800	5,760	6,720	7,360	8,000	9,600
Start-up Voltage (V)	60	80	80	80	80	80
Min. DC Voltage (V)	55	100	100	100	100	100
Max. DC Input Voltage (V)	500	600	600	600	600	600
Rated DC Input Voltage (V)	360	360	360	360	360	360
MPPT Voltage Range (V)	80-450	100-550	100-550	100-550	100-550	100-550
Number of MPP Trackers	1	2	2	2	2	2
Number of DC Inputs per MPPT	1	1	1	1	1	1
Max. Input Current (A)	16	15/15	15/15	15/15	15/15	15/15
Max. Short-circuit Current (A)	20	20/20	20/20	20/20	20/20	20/20
Output						
Rated Output Power (W)	3,300	3,600	4,200	4,600	5,000/4,990 ^{①**}	6,000
Max. Output Power (W)	3,300	3,960*	4,600	4,600	5,500/4,990 ^{①**}	6,600
Max. Apparent Power (VA)	3,300	3,960*	4,600	4,600	5,500/4,990 ^{①**}	6,600
Rated Output Voltage (V)	220/230					
Rated AC Frequency (Hz)	50/60Hz 45-55Hz/55-65Hz					
Max. Output Current (A)	14.4	18***	21	21	25/21.7 ^{①****}	28.7
Power Factor	0.8 leading ...0.8 lagging					
Max. Total Harmonic Distortion	<3% @Rated Output Power					
DCI	<0.5%In					
Efficiency						
Max. Efficiency	97.5%	98.1%	98.1%	98.1%	98.1%	98.1%
European Efficiency	97.0%	97.5%	97.5%	97.5%	97.5%	97.5%
MPPT Efficiency	99.9%	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					
Over-temperature Protection	Integrated					
Residual Current Protection	Integrated					
Anti-islanding Protection	Integrated					
AC Short-circuit Protection	Integrated					
AC Over-voltage Protection	Integrated					
General Data						
Dimensions (mm)	327W*297H*114D	410W*360H*120D				
Weight (kg)	6.5	13				
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 (STS-3.3KTL-S)	IEC62109, EN61000, C10/11, IEC61727, IEC62116, IEC60068, IEC61683, VDE4105, VDE0126, UTEC15-712-1, EN50549, RD661, RD413, RD1699, UNE 217001, UNE 217002, RD647, CEI 021, IS16221, IS16169, ABNT NBR 16149, ABNT NBR 16150					
Compliance (STS-3.6KTL to STS-6KTL)	NB/T32004, IEC62109, IEC62116, VDE4105, VDE0126, UTE C15-712-1, AS4777, C10/11, CEI0-21, RD1699, NBR16149, IEC61727, IEC60068, IEC61683, EN50549, EN61000					

① The grid feed in power for AS/NZS 4777.2 is limited 4.99kW & 4.99kVA & 21.7A.

* : 3680 for G98. ** : 5000 for C10/11. *** : 16 for G98. **** : 21.7 for C10/11.