



Sunways Single Phase with Dual MPPT STS-3K~6KTL-NS

MAX 98.1% 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. 98.1% 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



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

Model	STS-3KTL-NS	STS-3.6KTL-NS	STS-4.2KTL-NS	STS-4.6KTL-NS	STS-5KTL-NS	STS-6KTL-NS
Input						
Max. Input Power (W)	4,800	5,760	6,720	7,360	8,000	9,600
Start-up Voltage (V)	120	120	120	120	120	120
Min DC Operating Voltage	100	100	100	100	100	100
Max. DC Input Voltage (V)	600	600	600	600	600	600
Rated DC Input Voltage (V)	360	360	360	360	360	360
MPPT Voltage Range (V)	100-550	100-550	100-550	100-550	100-550	100-550
No. of MPP Trackers	2	2	2	2	2	2
No. of DC Inputs per MPPT	1/1	1/1	1/1	1/1	1/1	1/1
Max. Input Current (A)	12.5/12.5 ^①	12.5/12.5 ^①	12.5/12.5 ^①	12.5/12.5 ^①	12.5/12.5 ^①	12.5/12.5 ^①
Max. Short-circuit Current (A)	15	15	15	15	15	15
Output						
Rated Output Power (W)	3,000	3,600	4,200	4,600	5,000	6,000
Max. Output Power (W)	3,300	3,960*	4,600	4,600	5,500	6,600
Rated Apparent Power (VA)	3,000	3,600	4,200	4,600	5,000	6,000
Max. Apparent Power (VA)	3,300	3,960*	4,600	4,600	5,500	6,600
Rated Output Voltage (V)	220/230					
Rated AC Frequency (Hz)	50/60Hz 45-55Hz/55-65Hz					
Max. Output Current (A)	15	18***	21	21	25/21.7 ^② ****	28.7
Rated Output Current(A)	13	15.7	18.3	20	21.7	26.1
Power Factor	0.8 leading ... 0.8 lagging					
Max. Total Harmonic Distortion	<3% @Rated Output Power					
DCI	<0.5%In					
Efficiency						
Max. Efficiency	98.1%	98.1%	98.1%	98.1%	98.1%	98.1%
European Efficiency	97.5%	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					
Surge Protection	Integrated (Type II AC/DC)					
Over-temperature Protection	Integrated					
Residual Current Protection	Integrated					
Islanding Protection	Integrated , frequency shift					
AC Short-circuit Protection	Integrated					
AC Over-voltage Protection	Integrated					
Protective Class	Class I					
Overvoltage Category	III[AC]; II[PV]					
General Data						
Dimensions (mm)	410W*360H*120D					
Weight (KG)	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	NB/T32004、IEC62109、IEC62116、VDE4105、VDE0126、UTE C15-712-1、AS4777、C10/11、CEI0-21、RD1699、NBR16149、IEC61727、IEC60068、IEC61683、EN50549、EN61000					
Country Of Manufacture	China					

① STS-3K~6KTL-NS series maximum input current per string is 12.5A, and STS-3K~6KTL-P-NS version is 15A, products deliver upon the order.

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