



- MAX 98.5% EFFICIENCY
- IP65 PROTECTION

STS 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
- IP65, wider working temperature and altitude, adapt to various installation environments

SAFE & RELIABLE



- High yield with Max. 98.5% 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 5 years warranty, extendable to 10 or 15 years

HIGH YIELD



- 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

EASY TO USE



Model	STS-3KTL	STS-3.6KTL	STS-4KTL	STS-4.6KTL	STS-5KTL	STS-6KTL
Input						
Max DC power for single MPPT	3,500	3,500	3,500	3,500	3,500	3,500
Start-up Voltage (V)	120	120	120	120	120	120
Min. DC Voltage (V)	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	12.5/12.5	12.5/12.5	12.5/12.5	12.5/12.5	12.5/12.5
Max. Short-circuit Current (A)	15/15	15/15	15/15	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	3,680	4,600	4,600	5,500*	6,600
Max. Apparent Power (VA)	3,300	3,680	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	16	21	21	25**	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	98.5%	98.5%	98.5%	98.5%	98.5%	98.5%
European Efficiency	97.6%	97.6%	97.6%	97.6%	97.6%	97.6%
MPPT Efficiency	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%
Protection						
DC Reverse Polarity Protection	Integrated					
Insulation Resistance Protection	Integrated					
AFCI	Optional					
Surge Protection	Integrated (Type II)					
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)	410W*360H*120D					
Weight (KG)	13					
Protection Degree	IP65					
Self-consumption at Night (W)	<1					
Topology	Transformerless					
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	G98 G99 NB/T32004 IEC62109 IEC62116 VDE4105 VDE0126 UTEC15-712-1 AS4777 C10/11 CEI0-21 RD1699 NBR16149 IEC61727 IEC60068 IEC61683 EN50549 EN61000					

* The range of AC grid voltage and frequency depends on local standards.

** The PV Designer shall consider the following if he wants to use SUNWAYS On-grid inverter to be under warranty.

1. Limits on the voltage: The minimum and maximum values of the output voltage of the photovoltaic Panels (PV) under the operating conditions must be contained in the range of MPPT of inverter, also the maximum voltage produced by the (PV) must be less than the maximum voltage allowable from the inverter. The maximum voltage of the (PV) is the string voltage at the minimum operating temperature of the (PV).
2. Limits on the current: The short-circuit current of the photovoltaic Panels must be less than the maximum current permissible by the inverter .
3. In case of using more value than the value that shown as The Max PV configuration in the Jordanian DATA Sheet, it shall take a written approval from our agent in Jordan.