



- MAX. EFFICIENCY 98.1%
- IP65 PROTECTION

STS 3~6KTL(-P)

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. Efficiency 98.1%
- 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-3KTL(-P)	STS-3.6KTL(-P)	STS-4.2KTL(-P)	STS-4.6KTL(-P)	STS-5KTL(-P)	STS-6KTL(-P)
Input						
Max. Input Power (W)	4,800	5,760	6,720	7,360	8,000	9,600
Start-up Voltage (V)	80	80	80	80	80	80
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
Number of MPP Trackers	2	2	2	2	2	2
Number of DC Inputs per MPPT	1	1	1	1	1	1
Max. Input Current (A)	15/15 ^①	15/15 ^①	15/15 ^①	15/15 ^①	15/15 ^①	15/15 ^①
Max. Short-circuit Current (A)	20/20	20/20	20/20	20/20	20/20	20/20
Output						
Rated Output Power (W)**	3,000	3,600	4,200	4,600	5,000/4,990 ^{②**}	6,000
Max. Output Power (W)	3,300*	3,680*	4,600*	4,600*	5,500/4,990 ^{②**}	6,600*
Max. Apparent Power (VA)	3,300*	3,680*	4,600*	4,600*	5,500/4,990 ^{②**}	6,600*
Grid Type (V)**	220/230					
Rated AC Frequency (Hz)	50/60 45-55/55-65					
Max. Output Current (A)	15	16***	21	21	25/21.7 ^{②****}	28.7
Power Factor	0.8 leading...0.8 lagging					
THDi @ Rated Power	<3%					
DCI	<0.5%ln					
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					
DC Switch	Integrated					
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 [W*H*D] (mm)	410*360*120					
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)					

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

② The grid feed in power for AS/NZS 4777.2 is limited 4.99kW & 4.99kVA & 21.7A.

* For G98 or G99 setting the Maximum output Power in (W) is equal to Rated output power in (W)

* (For G98 or G99 setting the Maximum Apparent Power in (VA) is equal to Rated output power in (VA)

** or C10/11. *** : 15.7 for G98. **** : 21.7 for C10/11 5000 : .