



- MAX 98.8% EFFICIENCY
- IP66 PROTECTION

### STT 30~60kW

Three Phase | 4 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. 98.8% efficiency
- European weighted efficiency 98.3%
- Wide MPPT voltage range
- Up to 10% continuous output overloading capacity
- DC 2 in 1 connection enabled, compatible with high-power panels

HIGH YIELD



- 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	STT-29.9KTL*	STT-30KTL	STT-33KTL	STT-36KTL	STT-40KTL	STT-45KTL	STT-50KTL-M	STT-60KTL-M
<b>Input</b>								
Max. Input Power (W)	47,840	48,000	52,800	57,600	64,000	72,000	80,000	96,000
Start-up Voltage (V)	180	180	180	180	180	180	180	180
Max. DC Input Voltage (V)	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100
Rated DC Input Voltage (V)	620	620	620	620	620	620	620	620
MPPT Voltage Range (V)	180-1000	180-1000	180-1000	180-1000	180-1000	180-1000	180-1000	180-1000
Number of MPP Trackers	4	4	4	4	4	4	4	4
Number of DC Inputs per MPPT	2	2	2	2	2	2	2	2
Max. Input Current (A)	32/32/32/32	32/32/32/32	32/32/32/32	32/32/32/32	32/32/32/32	32/32/32/32	32/32/32/32	32/32/32/32
Max. Short-circuit Current (A)	40/40/40/40	40/40/40/40	40/40/40/40	40/40/40/40	40/40/40/40	40/40/40/40	40/40/40/40	40/40/40/40
<b>Output</b>								
Rated Output Power (W)	29,900	30,000**	33,000**	36,000**	40,000**	45,000**	50,000**	60,000**
Max. Output Power (W)	29,900	33,000**	36,300**	39,600**	44,000**	49,500**	55,000**	66,000**
AC output rated apparent power(VA)	29,900	30,000	33,000	36,000	40,000	45,000	50,000	60,000
Max. Apparent Power (VA)	29,900	33,000**	36,300**	39,600**	44,000**	49,500**	55,000**	66,000**
Rated Output Voltage (V)	3 L / N / PE, 380 / 400V							
Rated AC Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60
AC output rated current(A)	43.3	43.5	47.8	52.2	58.0	65.2	72.5	87.0
Max. Output Current (A)	43.3	47.8***	52.6***	57.4***	63.8***	71.7***	79.7***	95.7***
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	98.8%	98.8%	98.8%	98.8%	98.8%	98.8%	98.8%	98.8%
European Efficiency	98.3%	98.3%	98.3%	98.3%	98.3%	98.3%	98.3%	98.3%
MPPT Efficiency	99.9%	99.9%	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	Integrated							
Surge Protection	Integrated							
Over-temperature Protection	Integrated							
Residual Current Protection	Integrated							
Anti-islanding protection	Frequency shift, Integrated							
AC Short-circuit Protection	Integrated							
AC Over-voltage Protection	Integrated							
<b>General Data</b>								
Dimensions (mm)	600W*400H*270D							
Weight (kg)	42							
Protection Degree	IP66							
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	Smart Fan Cooling							
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, G99, EN61000							

\* : STT 29.9KTL available for Australia only.

\*\* : for G99 setting the Maximum output power in (W) is equal to Rated output power in W and Maximum Apparent power VA

\*\*\* : for G99 setting the Maximum output current (A) is equal to Ac output rated current A