

PV On-Grid Inverter 1Ph



STS 3 ~ 5kW

On-Grid Inverter 1Ph with 2 MPPT

- MAX 98.1% EFFICIENCY
- IP65 PROTECTION



• SAFE & RELIABLE •

- High reliability due to good heat dissipation design
- Integrated lightning Surge protection for SPD - PV & SPD - AC
- Adapt to complex power grid
- High anticorrosion ability with aluminum alloy die casting technology
- Wider working temperature and altitude, adapt to various installation environments



• HIGH EFFICIENCY •

- High Performance with Max. 98.1% efficiency
- European standard 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 Upgraded Programming
- Fast & Easy configuration via Mobile App or OLED panel

specification

Model	STS-3KTL-P	STS-4.2KTL-P	STS-5KTL-P
PV Input			
Max. Input Power (W)	4800	6720	8000
Start-up Voltage (V)	80	80	80
Min. DC Voltage (V)	100	100	100
Max. DC Input Voltage (V)	600	600	600
Rated DC Input Voltage (V)	360	360	360
MPPT Voltage Range (V)	100-550	100-550	100-550
Number of MPP Trackers	2	2	2
Number of DC Inputs per MPPT	1	1	1
Max. Input Current (A)	15/15	15/15	15/15
Max. Short - circuit Current (A)	20/20	20/20	20/20
Output			
Rated Output Power (W)	3000	4200	5000/4990
Max. Output Power (W)	3300	4600	5500/4990
Max. Apparent Power (VA)	3300	4600	5500-4990
Rated Output Voltage (V)	1L/N/PE, 230/400V		
Rated AC Frequency (Hz)	50/60Hz 45-55Hz/55-65Hz		
Max. Output Current (A)	15	21	25/21.7
Power Factor	0.8 leading...0.8 lagging		
Max. Total Harmonic Distortion	<3% @Rated Output Power		
DCI	< 0.5% In		
Efficiency			
Max. Efficiency	98.1%	98.1%	98.1%
European Efficiency	97.5%	97.5%	97.5%
MPPT Efficiency	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	Frequency shift, Integrated		
AC Short - circuit Protection	Integrated		
AC Over - voltage Protection	Integrated		
General Data			
Dimensions (mm)	410Wx360Hx120D		
Weight (kg)	13		
Protection Degree	Outdoor : IP65		
Self - Consumption at night (W)	< 1		
Topology	high Efficiency - 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 Panel	OLED & LED		
Communication	RS485, Wifi / GPRS / LAN (Optional)		
Compliance	NB / T32004, IEC62109, IEC62116, VDE4105, VDE0126, UTE C15-712-1, AS4777, C10/11 CEI 0-21, RD1699, NBR16149, IEC61727, IEC60068, IEC61683, EN50549, EN61000		

*Product specification are subject to change without further notice.

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