

# Single Phase Grid Tie Inverter

## S Series 1000W - 10kW



### Key Features

- **High Efficiency**

Offers efficiency levels of 97.3% to 98.1%, ensuring optimal conversion of DC power from solar panels to AC power for the grid.

- **Grid Compliance**

Meet local grid standards, ensuring seamless integration into the grid while maintaining safety protocols.

- **Wide Power Range**

With a power range from 1000W to 10kW, it can be used for small residential systems or larger commercial applications.

- **Low Start-up Voltage**

Allows the solar inverter to start operating

even at low solar input levels, maximizing energy production during early mornings and late afternoons.

- **Quick Installation**

Featuring plug-and-play designs, it can allow for fast setup and minimal installation time, reducing labor costs.

- **Compact Design**

Typically small and lightweight, making installation easy and space-efficient, especially for residential applications.

## Specification 1000W-3600W

Model	S1000TL	S1500TL	S2200TL	S3000TL	S3600TL
INPUT (DC)					
Max. Input Power	1500W	2250W	3300W	4500W	5400W
Max. Input Voltage	550Vdc				
Start Voltage/Shut Down Voltage	65/70Vdc	75/100Vdc	75/100Vdc		
MPPT Voltage Range	70-500Vdc	100-500Vdc	100-500Vdc		
Max. Input Current	18A				
Max. Short Circuit Current per MPPT	25A				
Number Of MPPT Trackers	1				
String Per MPPT	1				
OUTPUT(AC)					
Nominal Output Power	1000W	1500W	2200W	3000W	3600W
Max. Output Power	1100W	1650W	2420W	3300W	3960W
Max. Output Current	6A	8A	12A	16A	16A
Rated Grid Frequency/Range	50Hz (44Hz-55Hz) / 60Hz (54Hz-65Hz), auto-selection				
Rated Grid Voltage/Range	208/220/230/240Vac, 180-270Vac				
Power Factor	~1% ( 0.8 leading ~ 0.8 lagging )				
THDi	<1.5%				<2.5%
EFFICIENCY					
Max. Conversion Efficiency	97.30%	97.30%	97.40%	97.50%	97.80%
European Efficiency	97.00%	97.00%	97.10%	97.20%	97.30%
MPPT Efficiency	99.90%				
SAFETY AND PROTECTION					
DC Switch	Optional				
DC Reverse Polarity Protection	Yes				
Anti-islanding Protection	Yes				
Overvoltage Protection	Yes				
AC Short Circuit Protection	Yes				
Leakage Current Protection	Yes				
Ground Fault Monitoring	Yes				
Grid Monitoring	Yes				
DC/AC Side SPD	Yes				
COMMUNICATION					
Display	LCD / LED + APP				
Communication Interface	WiFi (default) / RS485 (optional)				
STANDARD COMPLIANCE					



Certificate	IEC/EN 62109-1/2, IEC/EN 61000-1/2/3
<b>GENERAL DATA</b>	
Topology	Transformerless
Night Power Consumption	< 0.2W
Dimension (WxHxD)	294x104x300mm
Weight	5Kg
Operation Temperature	-25°C ~ +60°C
Relative Humidity	0 ~ 100%
Operation Altitude	< 2000m without power derating
Noise Level	< 25dB
Cooling Method	Smart Cooling
Protection Degree	IP65
Warranty	Standard 5 Years, 7/10 Years Optional

Product specifications are subject to change without further notice.

## Specification 4000W-10KW

Model	S4000TL	S5000TL	S6000TL	S8000TL	S10000TL
INPUT (DC)					
Max. Input Power	6600W	7500W	7500W	12000W	15000W
Max. Input Voltage	550Vdc				
Start Voltage/Shut Down Voltage	75/100Vdc				
MPPT Voltage Range	100-500Vdc				
Max. Input Current	22A			28A/18A	
Max. Short Circuit Current per MPPT	30A			40A/25A	
Number Of MPPT Trackers	1			2	
String Per MPPT	1/1			2/1	
OUTPUT(AC)					
Nominal Output Power	4000W	5000W	6000W	8000W	10000W
Max. Output Power	4400W	5500W	6600W	8800W	10500W
Max. Output Current	21A	25A	28A	38.5A	47.7A
Rated Grid Frequency/Range	50Hz (44Hz-55Hz) / 60Hz (54Hz-65Hz), auto-selection				
Rated Grid Voltage/Range	208/220V/230V/240V, 140-310Vac				
Power Factor	~1% ( 0.8 leading ~ 0.8 lagging )				
THDi	<2.5% ( Rated Power )				
EFFICIENCY					
Max. Conversion Efficiency	97.80%	97.50%	97.60%	98.10%	
European Efficiency	97.30%	97.20%	97.30%	97.50%	
MPPT Efficiency	99.90%				
SAFETY AND PROTECTION					
DC Switch	Optional				
DC Reverse Polarity Protection	Yes				
Anti-islanding Protection	Yes				
Overvoltage Protection	Yes				
AC Short Circuit Protection	Yes				
Leakage Current Protection	Yes				
Ground Fault Monitoring	Yes				
Grid Monitoring	Yes				
DC/AC Side SPD	Yes				
COMMUNICATION					
Display	LCD / LED + APP				
Communication Interface	WiFi (default) / RS485 (optional)				
STANDARD COMPLIANCE					



Certificate	IEC/EN 62109-1/2, IEC/EN 61000-1/2/3	
GENERAL DATA		
Topology	Transformerless	
Night Power Consumption	< 0.2W	
Dimension (WxHxD)	319x106x370mm	374x127x468mm
Weight	7Kg	11Kg
Operation Temperature	-25°C ~ +60°C	
Relative Humidity	0 ~ 100%	
Operation Altitude	< 2000m without power derating	
Noise Level	< 25dB	
Cooling Method	Smart Cooling	
Protection Degree	IP65	
Warranty	Standard 5 Years, 7/10 Years Optional	

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