



1500 / 2000 W Inverter

The Solar Cynergy 1500~5000 series is applicable to various rooftops and small scale photovoltaic grid-connected power plants. Their nominal output powers are 1.5 kW, 2 kW, 2.5 kW, 3 kW, 3.6 kW, 4 kW, 4.6 kW and 5kW respectively.

This series is transformerless and has a wide range of MPPT input voltage. Its maximum conversion efficiency and MPPT tracking accuracy reach 97.6 % and 99.5 % respectively. The maximum DC voltage reaches 550 V. Its multilingual LCD display facilitates easy operation. It has integrated DC switch and waterproof direct plug-in terminals. It has overvoltage, islanding, short-circuit, overloading and overheating protection functions. Its IP65 protection degree will ensure that it runs well in various tough environments.



Features:

Efficient

- Efficiency of up to 97.6 %
- Transformerless

Safe

- Integrated DC switch
- Comprehensive protection functions

Flexible

- LCD backlight
- For indoor and outdoor installation

Simple

- 'Plug and play' connection for easy installation
- Friendly interface, easy to install and maintain

Specifications	Solar Cynergy 1500	Solar Cynergy 2000
Input data		
Max.DC power	1750W	2320W
Max.DC voltage	450V	500V
Recommended system voltage	360V	383V
System start-up voltage	150V	150V
PV voltage range MPPT	110V-430V	110V-480V
Full load voltage range MPPT	200V-360V	250V-400V
Shutdown voltage	70V	70V
Max.input current	9A	10A
DC voltage ripple	< 5%	< 5%
Number of MPP trackers	1	1
Max.number of strings	1	1
Output data		
Nominal AC output	1500W	2000W
Max.AC power	1650W	2200W
Max.output current	9A	12A
THD of AC current	< 3%	< 3%
Norminal grid voltage	220V/230V/240V	220V/230V/240V
Norminal grid frequency	50Hz	50Hz
Power factor (cos ϕ)	0.99	0.99
Number of feed-in phases	single-phase	single-phase
Efficiency		
Max. efficiency	96.5%	96.5%
Euro efficiency	95.0%	95.5%
MPPT efficiency	99.5%	99.5%
Device protection		
Reverse polarity protection	short-circuit diode	short-circuit diode
DC switch	Yes	Yes
Short-circuit proof	Yes	Yes
Ground fault monitoring	Yes	Yes
Grid monitoring	Yes	Yes
Over-voltage protection	Yes	Yes
Over-current protection	Yes	Yes

Active anti-islanding	Yes	Yes
Ground fault current detection	Yes	Yes
General data		
Dimensions (height x width x depth)	360/500/155	360/500/155
Weight	14kg	14kg
Ambient temperature	25°C to +50°C	
Working altitude	<3000M	<3000M
Noise development	<30 dB (A)	<30 dB (A)
Power consumption night	< 0.2W	< 0.2W
Power consumption standby	4W	5W
Topological structure	transformerless	transformerless
Cooling	free convection	free convection
IP degree of protection	IP65	IP65
Features		
On/off mode	Auto	Auto
DC connections	MC4	MC4
AC connections	plug connector	plug connector
Display	LCD/LED	LCD/LED
Accessory interfaces	RS485/RS232	RS485/RS232
Standard warranty	5 years	5 years
Certificates	CE/VDE/AS/ENEL/G83/CGC	