

# BlueSolar Grid Inverter

BlueSolar Grid Inverter	1500	2000	2800	4000	5000
<b>GRID OUTPUT (AC)</b>					
Nominal output power	1500W	2000W	2800W	4000W	5000W
Maximum output power	1650W	2200W	3000W	4400W	5500W
Nominal output current	6.52A	8.7A	12A	17.5A	22A
Maximum output current	7.2A	9.5A	13A	19A	24A
Maximum fuse protection	16A	16A	16A	25A	25A
Harmonic distortion of output current	<3% at nominal power		<5% at 50% power		
Nominal AC output voltage	220V - 230V - 240V				
Power factor	>0,99% at nominal power				
Operating AC voltage range	190-260V				
Nominal AC frequency	50Hz				
Operating AC frequency range	45.5-54.5Hz				
Internal consumption at night	<0,1W				
Short circuit proof	Yes				
<b>SOLAR INPUT (DC)</b>					
Maximum Input voltage	450V	500V	500V	550V	550V
Input Voltage MPPT range	110-430V	110-480V	110-480V	110-530V	110-530V
Maximum input current	9A	10A	13A	18A	20A
Maximum input power	1750W	2280W	3160W	4500W	5200W
Number of MPPT trackers	1	1	1	1	1
Number of strings	1	1	2	4	4
Start-up power	7W	7W	7W	10W	10W
Ground fault monitoring	RCMU (residual current monitoring unit)				
Reverse polarity protection	Yes, with short circuit diode				
<b>EFFICIENCY</b>					
Maximum efficiency	95.5%	96.4%	96.4%	97.6%	97.8%
European standard efficiency	94.5%	95.4%	95.5%	96.7%	96.9%
<b>GENERAL</b>					
Topology	Transformerless				
Communication port	RS232				
Operating temperature range	-20°C to 60°C (automatic power limit in case of internal over temperature)				
Nominal power temperature range	-20°C to 55°C				
Storage temperature range	-20°C to 70°C				
Maximum operating altitude	2000 m (5% derating at 4000 m)				
Cooling method	Natural convection				
Relative humidity	Max 95%				
<b>ENCLOSURE</b>					
Protection degree	IP54				
DC connectors	MC4 (Multi Contact 4mm)				
Weight (kg)	14.8 kg	14.8 kg	14.8 kg	20.7 kg	20.7 kg
Dimensions (hxxwxd, mm))	376x415x125	376x415x125	376x415x125	368x475x195	368x475x195
<b>STANDARDS</b>					
Safety	EN 50178				
EMC, Emission	EN 61000-6-3				
EMC, Immunity	EN 61000-6-2				
EMC, Harmonics and Flicker	EN 61000-3-2, EN 61000-3-3				
Automatic Grid Disconnection	VDE 0126-1-1 (2006)				