

1100-2200SGA

Archieve maximum power from your PV system - from 3 modules upwards



Perfect for Self PV



10 years
Standard warranty



Wide input voltage range
Variable system planning



High efficiency



Suitable for outdoor use
Protection against dust and water jets



Compact dimensions
Low weight

Technical specifications

	1100SGA	1600SGA	2200SGA
Input values			
MPPT voltage range	50 V ... 500 V	50 V ... 500 V	50 V ... 500 V
MPPT voltage range at nominal power	110 V ... 450 V	150 V ... 450 V	200 V ... 450 V
Maximum DC voltage		500 V	
Minimum DC voltage for startup		70 V	
Maximum DC current		12 A	
Maximum DC short circuit current		15 A	
Number of MPP trackers		1	
Number of string connections		1	
Connection type		MC4 / H4	
Output values			
Rated output power	1,100 W	1,600 W	2,200 W
Maximum output apparent power	1,100 VA	1,600 VA	2,200 VA
Maximum AC current	5.3 A	7.7 A	10.6 A
Mains nominal voltage		L/N/PE, 230 V	
Mains voltage range		180 Vac - 276 Vac (According to local norm)	
Mains frequency		50 Hz / 60 Hz	
Mains frequency range		45 Hz ... 55 Hz / 54 Hz ... 66 Hz (According to local standard)	
Power factor cos (φ)		Adjustable from + 0.8 to - 0.8	
Distortion factor at rated output power		< 3 %	
Power input at night		< 1 W	
Connection type		Connector	
Efficiency			
Maximum efficiency		97.5 %	
Euro efficiency		96.9 %	
MPPT efficiency		> 99.9 %	
Ambient conditions			
Protection class		IP65	
Ambient temperature range		- 30 °C ... + 60 °C	
Relative humidity		0 % ... 100 % (without condensation)	
Cooling		Natural convection	
Maximum operating height above sea level		2,000 m	
Audible noise emissions		< 25 dB	
Equipment			
Display		LCD + LED	
Inverter topology		Transformerless	
DC disconnect		Integrated	
Reverse polarity protection		Yes	
Protection class		I	
Overvoltage category		AC: III / DC: II	
Standard & guidelines			
EMV		EN 61000-6-1, EN 61000-6-3, EN 61000-3-2, EN 61000-3-3	
Grid connection		VDE-AR-N 4105, VDE 0126-1-1	
Device safety		IEC 62116, IEC 61727, IEC 61683, IEC 62109-1/2	
Interfaces			
Data communication		RS485, USB	
Weight & dimensions			
Weight		5.5 kg	
Dimensions (W x H x D)		303 mm x 261 mm x 120 mm	
Warranty			
Standard warranty		10 years	

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The quality management system of SOLARMAX GmbH is certified according to ISO 9001:2015.

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