

SolarMax SP-Series

1000SP • 1500SP • 2000SP • 2500SP • 3000SP

The competitive solution for residential solar plants



- High efficiency
- Wide input voltage range
- Protection class IP65, suitable for outdoor use
- Quick and easy installation with MaxLink APP
- WLAN interface
- Optional with LCD display
- APP & Monitoring Portal
- 5 year warranty (optional 10 year warranty)
- Service hotline

SolarMax SP-Series

Technical specifications

		1000SP	1500SP	2000SP	2500SP	3000SP
Input values	MPP voltage range	90 V ... 580 V	90 V ... 580 V	90 V ... 580 V	90 V ... 580 V	90 V ... 580 V
	MPP voltage range at nominal power	90 V ... 520 V	170 V ... 520 V	170 V ... 520 V	210 V ... 520 V	240 V ... 520 V
	Maximum DC voltage	600 V				
	Minimum DC voltage for startup	90 V				
	Minimum DC voltage for shutdown	70 V				
	Maximum DC current	12.5 A				
	Maximum DC short circuit current	15 A				
	Number of MPP trackers	1				
	Number of string connections	1				
Connection type	Amphenol H4 (type MC4)					
Output values	Rated output power	1,000 W	1,500 W	2,000 W	2,500 W	3,000 W
	Maximum output apparent power	1,100 VA	1,650 VA	2,200 VA	2,750 VA	3,300 VA
	Maximum AC current	4.8 A	7.2 A	9.5 A	11.9 A	14.3 A
	Mains nominal voltage	230 V				
	Mains voltage range	160 V ... 300 V				
	Mains frequency	50 Hz / 60 Hz				
	Mains frequency range	45 Hz ... 55 Hz / 55 Hz ... 65 Hz				
	Power factor cos (φ)	Adjustable from 0.8 overexcited to 0.8 underexcited				
	Distortion factor at rated output power	< 3 %				
	Power input at night	< 1 W				
	Connection type	Connector				
Efficiency	Maximum efficiency	97.4 %	97.4 %	97.4 %	97.6 %	97.6 %
	Euro efficiency	96.1 %	96.5 %	96.8 %	97.3 %	97.3 %
Ambient conditions	Protection class	IP65				
	Ambient temperature range	- 25 °C ... + 60 °C (Nominal power up to + 45 °C)				
	Relative humidity	0 % ... 100 % (not condensing)				
	Cooling	Air cooling				
	Maximum operating height above sea level	2,000 m (without derating) / 4,000 m max				
Audible noise emissions	< 30 dB(A) @ 1 m					
Configuration	Display	App over WLAN connection + LED, optional with LCD display				
	Inverter topology	Transformerless				
	DC disconnect	Integrated				
	DC polarity inversion protection	Integrated				
	Residual Current Monitoring Unit (RCMU)	Integrated				
	Grid protection interface	Integrated				
	Protection class (IEC 62109-1)	I				
Overvoltage category (IEC 62109-1)	AC: III / DC: II					
Standard and guidelines	EMV	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4				
	Grid connection	EN50549-1, VDE-AR-N 4105, IEC 61727, IEC 62116, VDE 0126-1-1, CEI 0-21				
	Device safety	IEC 62109-1, IEC 62109-2				
Interfaces	Data communication	WLAN (optional: RS485, GPRS)				
Weight and dimensions	Weight	8.8 kg				
	Dimensions (W x H x D)	285 mm x 336 mm x 125 mm				
Warranty	Standard warranty	5 years / optional 10 years				

All rights, amendments and errors reserved.

