

# 3600-5000SP

The small inverter with power for powerful private solar systems



Perfect for repowering  
2 MPP Tracker



Wide input voltage range  
Variable system planning



Suitable for outdoor use  
Protection against dust and water jets



WLAN Quick install  
via MaxLink App



Monitoring Portal  
and Service Hotline



Compact dimensions  
Low weight

## Technical specifications

	3600SP	4000SP	4600SP	5000SP
<b>Input values</b>				
MPPT voltage range	90 V ... 580 V	90 V ... 580 V	90 V ... 580 V	90 V ... 580 V
MPPT voltage range at nominal power	170 V ... 520 V	190 V ... 520 V	220 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	26 A (2 × 13 A)			
Maximum DC short circuit current	30 A (2 × 15 A)			
Number of MPP trackers	2			
Maximum PV power per MPPT <sup>1</sup>	MPPT1: 3,900 W MPPT2: 3,900 W	MPPT1: 4,400 W MPPT2: 4,400 W	MPPT1: 5,060 W MPPT2: 5,060 W	MPPT1: 5,500 W MPPT2: 5,500 W
Number of string connections	2 (1/1)			
Connection type	Amphenol H4 (type MC4)			
<b>Output values</b>				
Rated output power	3,600 W	4,000 W	4,600 W	5,000 W
Maximum output apparent power	3,680 VA	4,400 VA	4,600 VA <sup>2</sup>	5,000 VA <sup>2</sup>
Maximum AC current	16.0 A	19.1 A	22 A	23.8 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			
<b>Efficiency</b>				
Maximum efficiency	97.5 %	97.5 %	97.6 %	97.6 %
Euro efficiency	97.2 %	97.2 %	97.3 %	97.3 %
<b>Ambient conditions</b>				
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 maximum			
Audible noise emissions	< 30 dB(A) @ 1 m			
<b>Equipment</b>				
Display	App over WLAN connection + LED			
Inverter topology	Transformerless			
DC disconnecter	Integrated			
DC polarity inversion protection	Integrated			
Protection class (IEC 62109-1)	I			
Overvoltage category (IEC 62109-1)	AC: III / DC: II			
<b>Standard &amp; guidelines</b>				
EMV	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4			
Grid connection	EN50549-1, VDE-AR-N 4105 <sup>3</sup> , IEC61727, IEC62116, VDE 0126-1-1, CEI 0-21			
Device safety	IEC62109-1, IEC62109-2			
<b>Interfaces</b>				
Data communication	WLAN (optional: RS485, GPRS)			
<b>Weight &amp; Dimensions</b>				
Weight	12.8 kg			
Dimensions (W × H × D)	335 mm × 426 mm × 125 mm			
<b>Warranty</b>				
Standard warranty	5 years / optional 10 years			



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

The environmental management system is certified according to ISO 14001.

1) Higher connected load permitted, but not usable by the inverter.

2) Depending on selected standards.

3) Not for 5000SP.

All rights, modifications and errors excepted.

DOWNLOAD APP NOW  
and start directly!



Until  
**10 YEARS**  
Warranty