

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 |
|--|--|----------------------------------|----------------------------------|----------------------------------|
| Input values | | | | |
| 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 | 22 A (2 x 11 A) | | | |
| Maximum DC short circuit current | 30 A (2 x 15 A) | | | |
| Number of MPP trackers | 2 | | | |
| Maximum PV power per MPPT ¹ | 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) | | | |
| Output values | | | | |
| 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 ² | 5,000 VA ² |
| 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 | | | |
| Efficiency | | | | |
| Maximum efficiency | 97.5 % | 97.5 % | 97.6 % | 97.6 % |
| Euro efficiency | 97.2 % | 97.2 % | 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 maximum | | | |
| Audible noise emissions | < 30 dB(A) @ 1 m | | | |
| Equipment | | | | |
| Display | App over WLAN connection + LED | | | |
| Inverter topology | Transformerless | | | |
| DC disconnect | Integrated | | | |
| DC polarity inversion protection | Integrated | | | |
| Protection class (IEC 62109-1) | I | | | |
| Overvoltage category (IEC 62109-1) | AC: III / DC: II | | | |
| Standard & guidelines | | | | |
| EMV | EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4 | | | |
| Grid connection | EN50549-1, VDE-AR-N 4105 ³ , IEC61727, IEC62116, VDE 0126-1-1, CEI 0-21 | | | |
| Device safety | IEC62109-1, IEC62109-2 | | | |
| Interfaces | | | | |
| Data communication | WLAN (optional: RS485, GPRS) | | | |
| Weight & Dimensions | | | | |
| Weight | 12.8 kg | | | |
| Dimensions (W x H x D) | 335 mm x 426 mm x 125 mm | | | |
| Warranty | | | | |
| Standard warranty | 5 years / optional 10 years | | | |



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

- 1) Higher connected load permitted, but not usable by the inverter.
- 2) Depending on selected standards.
- 3) Not for 5000SP.

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DOWNLOAD APP NOW
and start directly!



Until
10 YEARS
Warranty