

SolarMax TP-Series

Three-phase • 5 kW to 7 kW

The small inverter for residential PV plants



- Individual tracker concept
- Versatile connection range
- Three phase mains connection
- Direct connection to the Internet
- Integrated I/O interface

SolarMax TP-Series

Specifications

| | | SolarMax 5TP2 | SolarMax 6TP2 | SolarMax 7TP2 |
|----------------------------------|--|--|-----------------|-----------------|
| Input values | MPP-voltage range ¹⁾ | 260 V ... 750 V | 310 V ... 750 V | 360 V ... 750 V |
| | Control range | 250 V ... 840 V | 250 V ... 840 V | 250 V ... 840 V |
| | Minimum DC-voltage | 250 V | 250 V | 250 V |
| | Maximum DC-voltage | 900 V | 900 V | 900 V |
| | Maximum DC-current | 10 A + 10 A | 10 A + 10 A | 10 A + 10 A |
| | Number of MPP-Trackers | 2 | 2 | 2 |
| | Max. PV generator output power per MPPT | 5,000 Wp | 5,000 Wp | 5,000 Wp |
| | Number of string connections | 2 | 2 | 2 |
| Connection type | Wieland PST40i1 (identical to MC4) | | | |
| Output values | Rated output power ²⁾ | 5,000 W | 6,000 W | 7,000 W |
| | Maximum apparent output power ²⁾ | 5,000 VA | 6,000 VA | 7,000 VA |
| | Maximum AC current | 3 x 7.5 A | 3 x 9.5 A | 3 x 10.2 A |
| | Nominal mains voltage | 3 x 400 V | | |
| | Mains nominal frequency / range | 50 Hz / 45 Hz ... 55 Hz | | |
| | Power factor cos (φ) | Adjustable from 0.8 overexcited to 0.8 underexcited | | |
| | Distortion factor at rated output power | < 3 % | | |
| | Connection type | Terminal (2.5 mm ² - 10 mm ²) | | |
| | Grid connection | Three-phase (L1 / L2 / L3 / N / PE) | | |
| | Power input at night | < 0.1 W | | |
| Efficiency | Max. efficiency | 97.6 % | 97.6 % | 97.6 % |
| | Euro efficiency | 96.5 % | 96.6 % | 96.7 % |
| Ambient conditions | Protection class | IP65 | | |
| | Ambient temperature range (for rated power output) | - 20 °C ... + 60 °C (+ 45 °C) | | |
| | Relative humidity | 0 % ... 100 % (without condensation) | | |
| | Maximum operating level above sea level | 2,000 m | | |
| | Fire protection | According EN 62109-1/ -2 | | |
| Noise emissions (1,5 m) | < 30 dBA (fan off) / < 58 dBA (fan on) | | | |
| Configuration | Display | LC graphics display with backlighting and status LED | | |
| | Inverter topology | HERIC [®] Transformerless | | |
| | DC-disconnector | Integrated | | |
| | Data logger | Energy yield, peak output and operating duration of the last 31 days, 12 months, 10 years, performance curves of the last 7 days | | |
| | Fault current monitoring | Internal, AC/DC sensitive | | |
| | Housing / service cover | Aluminium / plastic ASA+PC | | |
| Overvoltage conductor, DC and AC | Requirement class D (VDE 0675-6) and/or type 3 (EN 61643-11) | | | |
| Standard & guidelines | EMV | EN 61000-3-2 / EN 61000-3-3 / EN 61000-6-2 / EN 61000-6-3 | | |
| | Grid connection | VDE 0126-1-1 A1:2012 / VDE 0126-1-1:2013 / VDE-AR-N 4105:2011 E8001-4-712 | | |
| | Device safety | EN 62109-1/ -2 | | |
| Interfaces | Data communication | RS485 / Ethernet (Plug & Play) | | |
| | Status signaling contact | Integrated | | |
| | Connection ripple control signal receiver | Integrated | | |
| | Connection lightning protection monitor | Integrated | | |
| | Connection to external grid monitoring | Integrated | | |
| | Connection to external energy counter | S0 | | |
| Weight & Dimensions | Weight | 21 kg | 21 kg | 21 kg |
| | Dimensions (B x H x T) | 476 mm x 360 mm x 180 mm | | |
| Warranty | Standard warranty | 5 years | | |
| | Warranty extensions | To 10, 15, 20 or 25 years | | |

¹⁾ For AC rated power output at symmetrical design.

²⁾ Depending on the country setting, deviating values are possible.

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