

SolarMax S Series String Inverters

S stands for smart and sturdy. We are convinced you will be impressed with the performance.

Efficient and innovative

A casing can be regarded as universally applicable if it is capable of withstanding adverse weather influences. For this reason it is manufactured from high-quality aluminium. The improved cooling concept ensures that the devices feed in 100 percent of their rated output, even if the ambient temperature reaches 45 °C. Thanks to their high overall efficiency, SolarMax S string inverters are guaranteed to offer higher performance. And for longer.

High quality and reliability

Each SolarMax S string inverter is a Swiss quality product with TÜV type approval. A new mains monitoring technique avoids shutdowns even under challenging mains conditions. The price is surprisingly competitive, not least in view of the fact that it includes fast, competent service and a 5-year warranty.

Quick and easy to install

Thanks to a mounting rail, installation of the SolarMax S string inverter is very simple. The low weight facilitates quick installation. All connections are pluggable from outside. The newly required DC insulation switch is already integrated. The wide input voltage range of the devices offers greater scope for interconnection of solar modules.

Attractive and easy to use

SolarMax S string inverters offer an attractive design that makes them look better as well as being easier to operate. The device features a particularly clear graphics display. Three buttons are enough to operate the unit. It's as simple as that. The SolarMax S string inverters feature RS485 and Ethernet interfaces as standard, in order to ensure that a wide range of data communication options can be implemented in practice.

We have more than 15 years of experience in the development and production of SolarMax inverters. You stand to gain from this experience and can protect the environment and your investment at the same time.



 **SWISS QUALITY**

 **SolarMax**[®]
Always a sunbeam ahead

Technical data

SWISS QUALITY



| | SolarMax 2000S | SolarMax 3000S | SolarMax 4200S | SolarMax 6000S |
|---|---|--|--|--|
| Input side (DC) | | | | |
| Maximum generator output *) | 2300 W _{STC} | 3300 W _{STC} | 5000 W _{STC} | 6000 W _{STC} |
| Control range | 100...550 V _{DC} | | | |
| Maximum input voltage | 600 V _{DC} | | | |
| Input current | 0...11 A _{DC} | 0...11 A _{DC} | 0...22 A _{DC} | 0...22 A _{DC} |
| Output side (AC) | | | | |
| Rated output | 1800 W | 2500 W | 3800 W | 4600 W |
| Maximum output | 1980 VA | 2750 VA | 4180 VA | 5060 VA |
| Nominal mains voltage / range | 230 V _{AC} / 184...300 V _{AC} | | | |
| Power factor (PF) | > 0.98 | | | |
| Nominal mains frequency/range | 50 Hz / 45...55 Hz | | | |
| Harmonic distortion at rated output | < 3 % | | | |
| System data | | | | |
| Night consumption | 0 W | | | |
| Maximum efficiency | 97 % | 97 % | 97 % | 97 % |
| European efficiency | 95.4 % @ 400 V _{DC} 94.6 % @ 300 V _{DC} | 95.5 % @ 400 V _{DC} 94.9 % @ 300 V _{DC} | 95.8 % @ 400 V _{DC} 95.1 % @ 300 V _{DC} | 96.2 % @ 400 V _{DC} 95.5 % @ 300 V _{DC} |
| Ambient temperature | -20 °C...+ 60 °C | | | |
| Rated output up to ambient temperature of | + 45 °C | | | |
| Relative humidity | 0...98 %, no condensation | | | |
| Protection type | IP54 | | | |
| Circuit type | digital sine wave controller, transformerless, two-stage (no galvanic isolation) | | | |
| Heat dissipation | convection / fan (fan exchangeable from outside) | | | |
| Display | graphic LC display 128 x 64 pixels, with background illumination and status LED | | | |
| Operation | three push buttons | | | |
| DC insulation switch | integrated DC insulation switch according to VDE 0100-712 | | | |
| CE-compliant according to | EN 50178, EN 61000-6-2, EN 61000-6-3, EN 61000-3-2, EN 61000-3-3, EN 61000-3-12, EN 61000-3-11 | | | |
| Mains monitoring | VDE 0126-1-1 | | | |
| Fault current monitoring | VDE 0126-1-1 | | | |
| Mark of conformity | "Type approved" TÜV Rheinland | | | |
| Data logger | data logger for energy yield, peak output and operating duration for the last 31 days, 12 months and 10 years | | | |
| Data communication | RS 485 / Ethernet | | | |
| Status signalling contact | M12 connector with relay as N/C contact / N/O contact | | | |
| Dimensions (WxHxD) | 545 x 290 x 185 mm | | | |
| Weight | 13 kg | 13 kg | 15 kg | 15 kg |
| Casing | aluminium, cover powder-coated | | | |

*) Recommended overdimensioning 15 % (ISE Fraunhofer study).

All rights, amendments and errors reserved.



Features

- Wide input voltage range
- Attractive, innovative design with IP54 standard
- High-quality aluminium housing for internal or external installation
- Integrated DC insulation switch
- All connections are pluggable
- Integrated graphics display with self-explanatory device operation
- Integrated RS485 / Ethernet interface
- SolarMax is TÜV type approved
- FDC Full Digital Control; with digital sine wave controller
- Simple installation with pre-installable mounting rail
- Rated output up to 45 °C ambient temperature
- New mains monitoring system, very robust and immune to interference
- Hotline and replacement service
- 5-year warranty
- Attractive price/performance ratio