

SolarMax 4000C

Solar energy is a profitable investment

SolarMax is the right investment, not only for your pocket but also for the environment, as well as for living in harmony with nature. Along with the advice from our specialists, the following information will enable us to answer any questions you may have, and will also answer some of the questions we regularly put to ourselves. With the SolarMax single-phase inverter, Sputnik Engineering provides an efficient cost-saving solution for producing solar electricity, which offers unique advantages, both in terms of efficiency and cost effectiveness.

Efficiency and Performance: with its remarkable maximum efficiency of 95%, our extended warranty and its low weight of 13kg, SolarMax units offer unique and decisive advantages.

Quality at a competitive price: although very competitively priced, the SolarMax 4000C system combines the highest construction quality with the advantage of a quick and competent after sales and customer support service and a five-year guarantee.

Long service life and high reliability: all SolarMax inverters comply with TÜV "TYPE APPROVED" standards and come with a warranty, guaranteeing long life and trouble free operation of all component parts, as well as freedom from interruptions caused by malfunctions. To achieve this high standard, Sputnik Engineering has made long-term operational safety a top priority in the design and development of its SolarMax inverters. SolarMax is one of the very few systems featuring a built-in monitoring system for residual current leakage, which complies with VDE 0126.

Simplicity: SolarMax single-phase inverters are easy to install, and can be positioned either indoors or outside thanks to their durable aluminium casing. All circuit points are pluggable. The units offer a wide range of input voltages, thus providing a variety of possibilities when laying out the PV array.

Ready availability: availability is an important asset of SolarMax units, which are both easy to find and readily available from our wholesalers, in sufficient quantities.



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

Features

- Maximum efficiency
- Wide range of input voltages
- Competitive price/performance ratio
- 5-year guarantee
- Market leader in weight, at 13 kg
- Elegant design
- High quality aluminium casing for indoor or outdoor installation
- All circuit points are pluggable
- Optimum personal and system safety in compliance with DIN VDE 0126
- Integrated display with many display functions
- Integrated interface RS 232/485
- Optional PC data communication via MaxTalk software, MaxAlarm Alarm function, MaxData Memory function
- Certificate TÜV Rheinland "TYPE APPROVED"
- Short-term delivery
- Hotline and replacement service



Technical Specifications

	SolarMax 4000C
DC Input	
Maximum input voltage	900 V _{dc}
MPP (maximum power point) range	400 ... 850 V _{dc}
Maximum power rating*	4500 W _{STC}
Maximum current rating	10 A _{dc}

AC Output	
Rated output	3800 W
Maximum Power	3800 VA
Operating Grid Voltage	196 ... 253 V _{ac}
Power Factor	> 0.98
Frequency	49.8 ... 50.2 Hz
Harmonic Current Distortion	< 3 %

Systems	
Maximum Efficiency	95 %
European Efficiency	
Input voltage:	400 V _{dc} 93.6 %
	500 V _{dc} 92.3 %
Tare Losses	0 W
Ambient Operating Temperature	-20 °C ... + 50 °C
Humidity	0 ... 98%, non-condensing
Cooling	Thermal convection, with optional cooling fan
Protection Type	IP54
Topology	Transformerless (without galvanic isolation)
Network monitoring	In compliance with to VDE 0126
Fault current monitoring of residual current for personal and system safety	Through network monitoring in compliance with VDE 0126
Display	Two-Line, 16 Character LCD (Backlighted)
Casing	Diecast aluminium
Weight	13 kg
Dimensions (WxHxD)	550 x 250 x 200 mm
CE-compliance	In compliance with EN 50081, EN 50082, EN 61000-3-2, EN 50178
Certificate	TÜV Rheinland "TYPE APPROVED"

* recommended overload of 15% (see study from ISE Fraunhofer)

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