



SolarMax 6000C

With SolarMax, the desire to own your own solar power plant will become reality.

Your commitment to invest in renewable energy is proof that you are aware of the signs of the times, and concerned about environmental protection, understanding that living in harmony with nature is a necessity – both today, and for many generations yet to come. For people like you, Sputnik Engineering has developed the SolarMax 6000C – a cost-saving single-phase SolarMax inverter unit designed for producing solar electricity, and offering unique advantages in terms of high efficiency and real cost effectiveness.

Efficiency and Performance: with their remarkable maximum efficiency and exceptional European efficiency ratings of respectively 97% and 96.2%, our extended warranty and low weight of 15kg, SolarMax 6000C units offer unique and decisive advantages.

Quality at a competitive price: although very competitively priced, the SolarMax 6000C 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.



Features

- Maximum efficiency
- Wide range of input voltages
- Competitive price/performance ratio
- 5-year guarantee
- Market leader in weight, at 15 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
- Higher partial efficiency thanks to the innovative MaxShare Concept
- 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 6000C
DC Input	
Maximum input voltage	600 V _{DC}
MPP (maximum power point) range	90 ... 560 V _{DC}
Maximum power rating*	6600 W _{STC}
Maximum current rating	22 A _{DC}

AC Output	
Rated output	4600 W**
Maximum Power	5060 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	97 %
European Efficiency	
Input voltage: 400 V _{DC}	96,2 %
300 V _{DC}	95,5 %
Tare Losses	0 W
Ambient Operating Temperature	- 20 °C ... + 50 °C
Humidity	0 ... 98%, non-condensing
Cooling	Thermal convection, with optional active cooling fan (ventilator)
Protection Type	IP54
Topology	Transformerless, twin stage (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	15 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)

**VDEW mode activated

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