

SolarMax 2000C/3000C

Caring for the environment – as well as for your pocket.

Your interest in renewable energy is a clear indication that you are one of those who are aware of the signs of the times. For people like you who are concerned about environmental protection, and who understand that living in harmony with nature is a necessity – both today and for many generations yet to come – Sputnik Engineering has developed the SolarMax – a unit which provides capital saving investments in solar energy, as well as in the future, and which also offers unique advantages in terms of high efficiency and real money saving potential.

Efficiency and Performance: with their remarkable maximum efficiency and exceptional European efficiency ratings of respectively 97% and 95.4%, our extended warranty and low weight of 12kg, SolarMax units offer unique and decisive advantages.

Quality at a competitive price: although very competitively priced, the SolarMax 2000C/3000C systems combine 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 systems. SolarMax is one of the 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 12 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 2000C	SolarMax 3000C
DC Input		
Maximum input voltage	600 V _{DC}	600 V _{DC}
MPP (maximum power point) range	90...560 V _{DC}	90...560 V _{DC}
Maximum power rating*	2300 W _{STC} *	3300 W _{STC}
Maximum current rating	11 A _{DC}	11 A _{DC}

AC Output		
Rated output	1800 W	2500 W
Maximum Power	1980 VA	2750 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}	95,4 %
	300 V _{DC}	94,6 %
Tare Losses	0 W	
Ambient Operating Temperature	- 20 °C ... + 60 °C	
Humidity	0 ... 98%, non-condensing	
Cooling	Thermal convection	Thermal conv. (cooling fan)
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 (Backlighting)	
Casing	Diecast aluminium	
Weight	11.5 kg	12 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)

All rights, amendments and errors reserved

