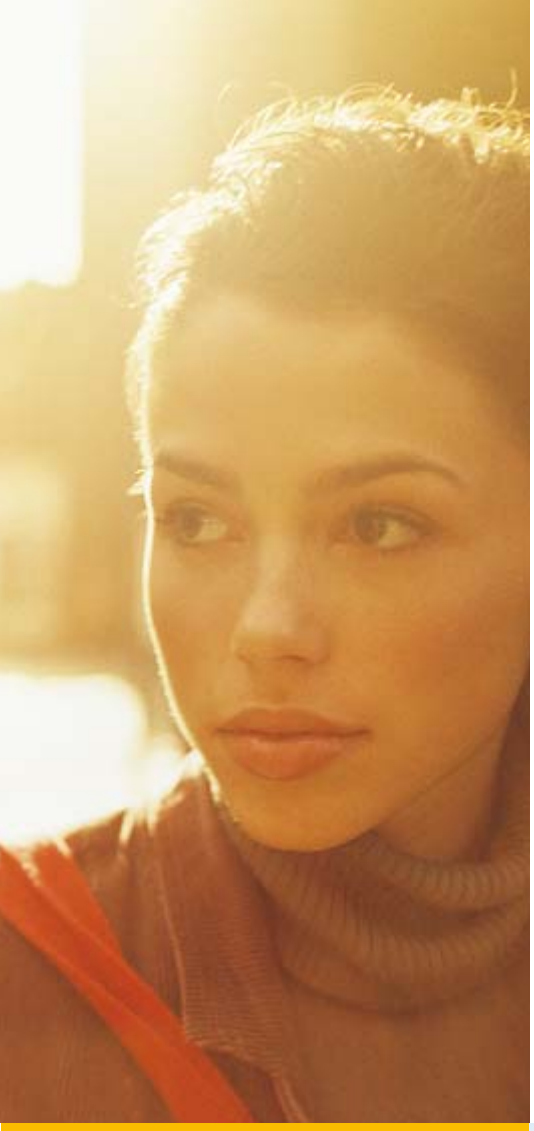

SolarMax C-Series single-phase inverters

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, our extended warranty and his low weight, SolarMax units offer unique and decisive advantages.

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

Technical Specifications

	SolarMax 2000C	SolarMax 3000C	SolarMax 4000C	SolarMax 4200C	SolarMax 6000C
Input side (DC)					
Max. input voltage	600 V_{DC}		900 V_{DC}	600 V_{DC}	
MPP control range	90...560 V_{DC}		400...850 V_{DC}	90...560 V_{DC}	
Max. generator output *)	2300 W_{STC}*	3300 W_{STC}	4500 W_{STC}	5000 W_{STC}	6000 W_{STC}
Maximum current	11 A_{DC}		10 A_{DC}	22 A_{DC}, 16 A_{DC} max. per input connector	
Output side (AC)					
Rated output	1800 W	2500 W	3800 W	3800 W	4600 W
Maximum output	1980 VA	2750 VA	3800 VA	4180 VA	5060 VA
Mains voltage	196...253 V_{AC}				
Power Factor	> 0.98				
Mains frequency	49.8...50.2 Hz				
Harmonic distortion	< 3 %				
System data					
Maximum efficiency	97 %	97 %	95 %	97 %	97 %
European efficiency	95,4 % @ 400 V_{DC} 94,6 % @ 300 V_{DC}	95,5 % @ 400 V_{DC} 94,9 % @ 300 V_{DC}	93,6 % @ 400 V_{DC} 92,3 % @ 500 V_{DC}	95,8 % @ 400 V_{DC} 95,1 % @ 300 V_{DC}	96,2 % @ 400 V_{DC} 95,5 % @ 300 V_{DC}
Night-time consumption	0 W				
Ambient operating temperature	- 20 °C...+ 60 °C	- 20 °C...+ 60 °C	-20 °C...+ 50 °C	- 20 °C...+ 60 °C	- 20 °C...+ 50 °C
Rel. Humidity	0...98 %, non-condensing				
Heat dissipation	Thermal convection	Thermal convection, with optional active cooling fan (ventilator)			
Protection type	IP 54				
Circuit type	Transformerless, twin stage (without galvanic isolation)		Transformerless (without galvanic isolation)	Transformerless, twin stage (without galvanic isolation)	
Grid monitoring	In compliance with to VDE 0126				
Fault current monitoring for personal and system protection	Through network monitoring in compliance with VDE 0126				
Display	Two-Line, 16 Character LCD (Backlighted)				
Housing	Diecast aluminium				
Weight	12.7 kg	12.7 kg	13.6 kg	16.3 kg	16.3 kg
Dimensions (W*H*D)	554 x 260 x 190 mm				
CE-compliant according to	EN 61000-6-3, EN 61000-6-1, EN 61000-3-2, EN 61000-3-3, EN 50178				
Mark of conformity	TÜV Rheinland “TYPE APPROVED”				

* with recommended oversizing of 15% (Fraunhofer ISE study)

Features

- **Maximum efficiency**
- **Wide range of input voltages**
- **Competitive price/performance ratio**
- **5-year guarantee**
- **Market leader in weight**
- **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**

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SolarMax®
www.solarmax.com