SolarMax 50C / 80C / 100C / 300C – High performance for big projects

Specialised in large systems

SolarMax central inverters 50C, 80C, 100C and 300C are efficient and cost-saving devices for the production of renewable solar energy particularly suitable for very large photovoltaic projects.

High quality at a competitive price

Besides its competitive price, SolarMax impresses with quality and fast competent service.
All SolarMax comply of course with "TÜV type approved" and come with a warranty guaranteeing long life and the trouble-free operation of all component parts, as well as freedom from interruptions caused by malfunctions. Operational safety has already been made the top priority in the development. SolarMax is one of the few devices featuring a switching concept offering enhanced operational safety and optimum operation with Digital Signal Processor (DSP).

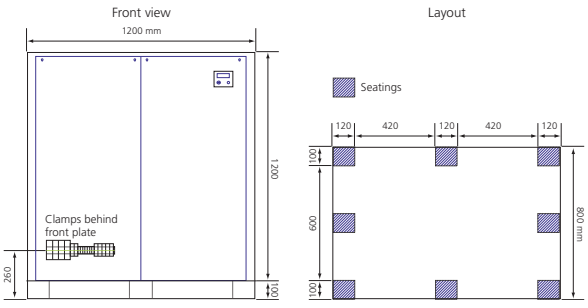
As easy as it gets

SolarMax central PV inverters are straightforward to install and quick and simple to start up.
All-inclusive trouble-free package: investing in a SolarMax service agreement guarantees up to 20 years of trouble-free system operation, and provides the user with planning security, enabling the user to calculate return on investment ratios over a defined period of time.

Features in brief

- Compact PWM sinus inverter
- Maximum efficiency of 96 %
- Digital Signal Processor
- Competitive price/performance ratio
- 2-year warranty, extendable up to 20 years
- Certificate TÜV Rheinland "type approved"

A compact PWM sinus inverter featuring maximum efficiency, a competitive price / performance ratio and a space-saving design. The two-year guarantee can be prolonged to 20 years.



The dimensions of SolarMax 50C / 80C / 100C.

SolarMax by Sputnik Engineering

Grid-connected Inverters

Three-phased

Art. No.	0200641	0200651	0200661	0200662
				
Model	**SolarMax 50C**	**SolarMax 80C**	**SolarMax 100C**	**SolarMax 300C**
MPP voltage range	430 - 800 V	430 - 800 V	430 - 800 V	435 - 800 V
Max. DC output	66 kW	105 kW	130 kW	400 kW
Max. input voltage	900 V	900 V	900 V	900 V
Max. input current	120 A	180 A	225 A	720 A
Nominal output	50 kW	80 kW	100 kW	300 kW
Output voltage	3 x 400 V +10 %, -15 %	3 x 400 V +10 %, -15 %	3 x 400 V +10 %, -15 %	3 x 400 V +10 %, -15 %
Power factor cos phi	> 0.95	> 0.95	> 0.95	> 0.98
Frequency	50 ±0.5 Hz	50 ±0.5 Hz	50 ±0.5 Hz	50 ±0.5 Hz
Harmonic distortion	< 3 %	< 3 %	< 3 %	< 3 %
Max. efficiency	96.0 %	96.0 %	96.0 %	96.0 %
Euro efficiency	94.8 %	94.8 %	94.8 %	94.8 %
Night-time consumption	2 - 7 W	2 - 7 W	2 - 7 W	2 - 7 W
Ambient temperature	-20 to +40 °C	-20 to +40 °C	-20 to +40 °C	-20 to +40 °C
Relative humidity	0 to 98 %, no condensation	0 to 98 %, no condensation	0 to 98 %, no condensation	0 to 98 %, no condensation
Protection mode	IP20	IP20	IP20	IP20
Circuit type	PWM (IGBT) with transformer	PWM (IGBT) with transformer	PWM (IGBT) with transformer	PWM (IGBT) with transformer
Display	Two-line LC display, background illumination	Two-line LC display, background illumination	Two-line LC display, background illumination	Two-line LC display, background illumination
Data communication (optional)	Integrated RS232 / RS485 interface	Integrated RS232 / RS485 interface	Integrated RS232 / RS485 interface	Integrated RS232 / RS485 interface
Dimensions (L / W / H)	800 mm / 1200 mm / 1300 mm	800 mm / 1200 mm / 1300 mm	800 mm / 1200 mm / 1300 mm	2 x 800 mm / 1200 mm / 1800 mm
Weight	450 kg	550 kg	600 kg	2600 kg
Warranty *	2 years	2 years	2 years	2 years
Norms	EN 61000-6-2, EN 61000-6-4, EN 50178, CE mark, "TÜV type approved"	EN 61000-6-2, EN 61000-6-4, EN 50178, CE mark, "TÜV type approved"	EN 61000-6-2, EN 61000-6-4, EN 50178, CE mark, "TÜV type approved"	EN 61000-6-2, EN 61000-6-4, EN 50178, CE mark, "TÜV type approved"

* - Can optionally be extended to 20 years

TRITEC