

Soladin 600



Power from the sun
at home

Save on your
electricity bill

Simple plug & play
installation

Suitable for most
types of solar panel

The sun as
power station



 **MASTERVOLT**

Technical specifications & description



Model **Soladin 600**

Article number 130000600

GENERAL

Work temperature	-20 °C to 40 °C
Storage temperature	-20 °C to 70 °C
Relative humidity	max. 95% not condensing
Protection degree	IP23
Safety class	class II
Dimensions	365 x 143 x 76 mm
Weight	2 kg
Casing	plastic (ABS)
Warranty	5 years

SOLAR INPUT (DC)

Nominal power @ 25°C	535 W
Maximum power @ 25°C	600 W
PV power	160-700 Wp
MPP voltage	40-125 V DC
MPP tracker	dynamic MPP tracker
Maximum voltage	155 V DC
Nom. rated current	8 A
Starting up power	1 W DC @ 40 V DC
DC connection	MultiContact 4 mm

GRID OUTPUT (AC)

Net voltage	230 V (184-265 V, programmable)
Maximum power	2.25 A
Fuse	3.15 A slow
Frequency	50 Hz (49.8-50.2 Hz)
Cos phi	0.99
Zero-Load	< 0.05 W AC
European output	91%
Maximum output	93%
AC connection	Euro socket

PROTECTIONS

Island protection	monitoring of voltage and frequency frame, disconnects within 100ms.
Protection of peak capacity	automatic control, dependent on the temperature of the converter, by raising the Vmp. It is impossible to damage the converter with too much power.
Temperature protection	reducing the power in case of a higher temperature of the converter, will disconnect above 80 °C
DC polarity protection	DC connection is protected (MC connectors can be damaged)

READ OUT FUNCTION

Indicator	two LED's, yellow and red
Correct working	flashes yellow (speed of flashing is in relation to the power generated)
Malfunction net or inverter	red (6 different flashing codes)

NORMS

CE	yes
EMC guideline	EMC 89/336/EEG
Emission	EN 50081-1
Harmonisation	EN 61000-3-2
Immunity	EN 50082-2
LV guideline	LV 73/23/EEC
Safety	EN 60950

Products developed for countries where an ENS circuit is not required.
Fitted with QNS anti-islanding as standard.

The sun as power station

Solar technology enables us to use renewable power sources such as the sun to an increasing extent. With the development of the Soladin 600, Mastervolt has made it possible for smaller solar installations, consisting of just a few panels, to contribute to a durable energy provision.

Working principle of the Soladin 600

The most important functionality of the Soladin is converting direct current, generated by the solar panels, into a standard 230 V/50 Hz electric power. The Soladin uses the electricity grid as an energy reservoir to which generated energy is sold back. In case the electricity provision is cut off, the Soladin 600 will automatically shut down.

'Plug & play'

The Soladin 600 converter is very compact and equipped with easily accessible 230 V and DC connections. Multi-contact connections have been included for the positive and negative connection of the PV array. The plug can be connected to a socket connection and makes the system ready to use. A clear LED indication gives information about the energy produced, the status of the system, and the Soladin converter.

Dynamic MPP tracker

Solar panels have a certain voltage at which they supply maximum energy: the so-called 'maximum power point' (MPP). This point varies in any make and kind of panel, and is determined by a combination of voltage, current, irradiation and temperature. The Soladin 600 is equipped with a dynamic MPP tracker, which makes it possible to reach > 99% MPP output under virtually any circumstances. The Soladin 600 therefore does not have any restrictions with regards to connecting any kind of solar panel (silicium, amorf, etc.) and always provides optimum performance of your solar system.

Entry range

The Soladin 600 has a wide working area and this makes it possible to connect almost all systems up to 600 Wp. With a voltage frame of 45 to 125 V DC, configurations of 36, 54 as well as 72 cells can be connected to it. The current range from 0 to 8 A making the Soladin 600 suitable for the latest high power panels.

Subject to alterations. For more product information please visit www.mastervolt.com/soladin

