

SmartSolar MPPT 150/100 by Victron



Price: CAD \$829.00

SKU: VESMARTSOLARMPPT-150/100-TR

Product Categories: [Charge Controllers](#), [MPPT : 60A-100A](#), [Shop](#)

Product Tags: [100A](#), [150V](#), [blue tooth](#), [bluetooth](#), [canada](#), [charge controller](#), [MPPT](#), [mppt charge controller](#), [smart solar](#), [victron](#), [victron smart solar](#), [victron smartsolar](#)

Product Page:

<https://www.modernoutpost.com/product/smartsolar-mppt-150-100-by-victron/>

Product Summary

The SmartSolar MPPT 150/100 solar charge controller by Victron. A full-featured MPPT controller using the latest, fastest technology. SmartSolar maximises solar energy-harvest, driving the charging process intelligently to achieve full battery charge in the shortest possible time. SmartSolar maintains battery health, extending its life.

This is the 150V, 100A model

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Victron SmartSolar MPPT 150/100 Features

Ultra-fast Maximum Power Point Tracking (MPPT)

Especially in case of a clouded sky, when light intensity is changing continuously, an ultra-fast MPPT controller will improve energy harvest by up to 30% compared to PWM charge controllers and by up to 10% compared to slower MPPT controllers.

Advanced Maximum Power Point Detection in case of partial shading conditions

If partial shading occurs, two or more maximum power points may be present on the power-voltage curve. Conventional MPPTs tend to lock to a local MPP, which may not be the optimum MPP. The innovative SmartSolar algorithm will always maximize energy harvest by locking to the optimum MPP.

Outstanding conversion efficiency

No cooling fan. Maximum efficiency exceeds 98%.

Flexible charge algorithm

Fully programmable charge algorithm (see the software page on our website), and eight preprogrammed algorithms, selectable with a rotary switch (see manual for details).

Extensive electronic protection

Over-temperature protection and power derating when temperature is high. PV short circuit and PV reverse polarity protection. PV reverse current protection.

Internal temperature sensor

Compensates absorption and float charge voltage for temperature.

Bluetooth Smart built-in: dongle not needed

The wireless solution to set-up, monitor and update the controller using Apple and Android smartphones, tablets or other devices.

VE.Direct

For a wired data connection to a Color Control panel, Venus GX, PC or other devices

Remote on-off

To connect for example to a VE.BUS BMS.

Programmable relay

Can be programmed (a.o. with a smartphone) to trip on an alarm, or other events.

Optional: pluggable LCD display

Simply remove the rubber seal that protects the plug on the front of the controller, and plug-in the display.

SmartSolar MPPT 150/100-TR Specifications...

Battery voltage : 12 / 24 / 48V Auto Select (software tool needed to select 36V)

Rated charge current : 100A

Nominal PV power, 12V 1a,b) 1450W

Nominal PV power, 24V 1a,b) 2900W

Nominal PV power, 36V 1a,b) 4350W

Nominal PV power, 48V 1a,b) 5800W

Max. PV short circuit current : 70A (max 30A per MC4 conn.)

Maximum PV open circuit voltage : 150V max cold conditions, 145V start-up and operating

Maximum efficiency : 98%

Self-consumption : Less than 35mA @ 12V / 20mA @ 48V

STANDARDS

Safety : EN/IEC 62109-1, UL 1741, CSA C22.2

[Download the full Spec Sheet here\]](#)

Product Attributes

- Dimensions: 1 × 1 × 1 cm
- Weight: 1.9 kg