

ProStar MPPT 40M : Advanced Solar Charge Controller by Morningstar



Price: CAD \$889.00

SKU: MSPROSTARMPPT-40M

Product Categories: [MPPT : 40A-59A](#), [Charge Controllers](#), [MPPT - Max Power Point Tracking](#)

Product Tags: [40a](#), [40a mppt](#), [canada](#), [charge controller](#), [morningstar canada](#), [morningstar prostar](#), [mppt charge controller](#), [mppt solar](#), [prostar canada](#), [prostar mppt](#), [prostar mppt 40](#), [prostar mppt 40m](#), [ps-mppt-40m](#), [small mppt](#), [solar controller](#)

Product Page:

<https://www.modernoutpost.com/product/prostar-mppt-40-solar-charge-controller/>

Product Summary

Morningstar's ProStar MPPT 40M solar controller with TrakStar Technology™ is an advanced maximum power point tracking (MPPT) battery charger for off-grid photovoltaic (PV) systems. Designed for the latest Lead-Acid, Lithium, and NiCd battery types. Load low voltage disconnect with lighting controls.

Product Description

Morningstar's ProStar MPPT 40M solar controller with TrakStar Technology™ is an advanced maximum power point tracking (MPPT) battery charger for off-grid photovoltaic (PV) systems. Designed for the latest Lead-Acid, Lithium, and NiCd battery types. Load low voltage disconnect with lighting controls.

ProStar MPPT 40M Key Features and Benefits

- Load and automatic PV-based lighting control
 - Charges all battery types including Lithium Ion
 - Continuous charging and no damage from PV array oversizing
 - Up to 256 days of data logging
 - Built-in self diagnostics
 - Highly durable polycarbonate case
 - Low noise design
 - MODBUS communications
 - Meter allows charging and temperature control adjustments without a computer
- [Download the datasheet here](#)]
- High Reliability :**

conformally coated circuit board and corrosion resistant terminals.

Maximizes Energy Harvest :

using TrakStar MPPT Technology to determine and adjust to the true maximum power point as solar insolation changes throughout the day.

High Efficiency :

at low, medium, and high power levels.

Data Logging :

up to 256 days of detailed power and load data.

Low Noise Design :

meets US Federal Communications Commission Class B specifications.

Automatic PV Based Lighting Control :

field adjustable, multi-event load control enables powerful options for PV lighting systems.

MODBUS Communications :

Solar Industry Standard MODBUS communications protocol allows for easy programming, control, remote data access and charge synchronization.

High Strength :

polycarbonate case and extruded aluminum heatsink.

Self Diagnostics :

continuous monitoring and reporting of any errors through its status LED's, optional display or communication port.

Meter :

allows adjustments to charging, lighting, and load control settings without a computer.

ProStar MPPT 40M Specifications...

Manufacturer Part Number

PS-MPPT-40M

Warranty

5-years

Max Current

40.0

Max Input Voltage

120 V

Max Power 12VDC

550

Max Power 24VDC

1100

NEMA Rating

NEMA 1 (indoor)

Listing Certifications

UL1741 CE IEC RoHS

Arc Fault Protection

Requires Separate Device

Dims

20 x 17 x 7 cm / 7.9 x 7.6 x 2.8 in

Weight

1.4 kg / 3.1 lbs

Electronic Protections

- Automatic recovery without fuses
- Solar Input: overload, short-circuit, high voltage warning, reverse polarity, high temperature, nighttime reverse current
- Load Output: overload, short-circuit, high temperature, reverse polarity
- Battery: reverse polarity (no battery removal)

Prostar MPPT 40M Document Downloads

<https://www.morningstarcorp.com/products/prostar-mppt/>

Product Attributes

- Dimensions: 22 × 20 × 12 cm
- Weight: 1.4 kg
- Model: PS-MPPT-40, PS-MPPT-40M