



# ProStar MPPT Morningstar

What is a ProStar MPPT solar controller?

**PROSTAR MPPT(TM) SOLAR CONTROLLER**The ProStar MPPT solar controller is an advanced maximum power point tracking (MPPT) battery charger for off-grid photovoltaic (PV) systems with PV array x power (Pmp) up to 1400 watts. All versions have TrakStarTM Technology and include load control. The controller allows multiple modules in series

How does ProStar MPPT work?

to charge. To prevent damage, power-down must be done in the reverse order. TechnologyThe ProStar MPPT utilizes Morningstar's TrakStar Maximum Power Point Tracking technology to extract maximum power from the solar module(s). The tracking algorithm is fully automatic and does not require use

Why is my ProStar MPPT not working?

controller. This alarm indicates that the ProStar MPPT is limiting battery current to the maximum charging. RTS OpenThe Remote Temperature Sensor is not connected to the controller. Use of the RTS is recommended for proper battery / ShortedThe heatsink temperature sensor is damaged. Return the controller to an authorized Morningstar dealer

Does the ProStar MPPT charge a battery?

the battery. The ProStar MPPT does not create current! Rest assured that the power into the ProStar MPPT is the same as the power out of the ProStar MPPT. Since power is the product of voltage and current (Volts x Amps), the following  $I_{in} \times V_{in} = I_{out} \times V_{out}$  assuming 100% efficiency i.e. if no losses in wiring and conversion

Can a ProStar MPPT be wired together?

ing current. In this type of system, each ProStar MPPT must have its own solar array. The load terminals of multiple controllers can only be wired together if the total load draw does not exceed the nameplate current of the LOWEST rated

Does ProStar MPPT limit solar input current?

current LimitThe ProStar MPPT will limit the solar input current if the heatsink temperature exceeds safe limits. Solar charge current will be tapered back (to 0 amps if needed) to reduce the heatsink

The RM-1 connects to the RJ-11 Meter A-B computer cable, and an RJ-11 plug to connect with a port on the ProStar MPPT. Morningstar controller's MeterBus port, for monitoring and programming using MSView PC software. RelayDriver ...

Prostar MPPT(TM) solar charge controller is an advanced maximum power point tracking (MPPT) battery charger for off-grid photovoltaic (PV) systems up to 1100 watts. All versions include load control and TrakStar(TM) Technology to ...

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