



# 45V Photovoltaic Panel Controller

What types of solar charge controllers are available?

We feature a wide range of both MPPT and PWM solar charge controllers. See the BlueSolar and SmartSolar Charge Controller MPPT - Overview. In our MPPT model names, for example MPPT 75/50, the first number is the maximum PV open circuit voltage. The second number, 50, is the maximum charge current.

How many amps can a solar controller charge?

Rated for maximum 60A continuous current (solar, load or diversion load) To comply with the National Electric Code (NEC), the current rating of the controller for solar charging must be equal or greater than 125% of the solar array's short circuit current output (Isc).

How many volts does a TS-mppt-45 battery charge?

This TS-MPPT-45 controller is rated for 45A at 12, 24, or 48V. Morningstar's TriStar MPPT solar controller with TrakStar Technology is an advanced maximum power point tracking (MPPT) battery charger for off-grid photovoltaic (PV) systems.

What is a UL rated solar controller?

The controller is UL listed and is designed for both solar home systems and professional applications. Large heat sink (1) and conservative design enables operating at full ratings to 60°C. No need to de-rate. Ratings to 60A at 48VDC will handle solar arrays up to 4kW.

Do solar charge controllers have an upper voltage limit?

All charge controllers have an upper voltage limit. This refers to the maximum amount of voltage the controllers can safely handle. Make sure you know what the upper voltage limit of your controllers is. Otherwise you may end up burning out your solar charge controller or creating other safety risks.

How many volts can a solar panel charge?

Solar panels output more than their nominal voltage. For example, a 12V solar panel might put out up to 19 volts. While a 12V battery can take up to 14 or 15 volts when charging, 19 volts is simply too much and could lead to damage from overcharging. Solar charge controllers aren't an optional component that delivers increased efficiency.

Morningstar's TriStar Controller (TS-45) is a three-function controller that provides reliable solar battery charging, load control or diversion regulation. The controller operates in one of these modes at a time and two or more controllers may be ...

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