

MPPT Solar Controller 50A, 100V,



Product Accessories

LCD display, BT-2 Bluetooth module, PC cable, BTS temperature sensor.



Features



Use of maximum power point tracking (MPPT) algorithm leads to a significant improvement of system energy utilization efficiency and a charging efficiency 30% higher than that of PWM method. A variety of tracking algorithms are combined to quickly locate the best operating point of the 1-V curve.



All-round electronic protection features: Battery reverse polarity protection, PV reverse polarity protection, PV short-circuit protection, charge over-current protection.



Support standard Modbus protocol to meet the communication needs in a variety of environments and occasions.



MPPT tracking efficiency is as high as 99.9% and circuit energy conversion efficiency as high as 98%; ultimate efficiency ensures no waste of energy.



Built-in temperature monitoring module allows for charging through derating, with no need for a fan, which ensures stable operation in extreme temperature environments.



Support a variety of lead-acid batteries and lithium batteries, and users can specify the charging parameters to their needs.

Product Parameters

- Battery voltage: 12/24V
- Charge current: 50A
- Solar panel power (12v battery) 660W
- Solar panel power (24V battery): 1320W
- Solar panel open circuit voltage: 100V
- Static power consumption: 10mA
- Types of battery supported: Lead-acid battery, colloidal battery, vented battery, lithium battery
- Equalizing charge: 14.6V/29.2V (Adjustable)
- Boost charge: 14.4V/28.8V (Adjustable)
- Floating charge: 13.8V/27.6V (Adjustable)
- Temperature compensation: -3mV/°C/2V
- Range of operating temperature: -35°C ~ 60°C
- Humidity: 95% , no condensing
- Wiring terminal: 10mm²/8AWG