

MPPT Solar Charge Controller

This MPPT solar charge controller utilizes Maximum Power Point Tracking technology. It detects the solar panel's voltage in real time, tracking the highest voltage and current for maximum power output to charge the battery.



Product Overview

Advanced Solar Energy Management

This multi-level Maximum Power Point Tracking (MPPT) solar charge controller is designed to optimize energy transfer from photovoltaic panels to battery systems. By utilizing advanced tracking technology, it significantly improves control accuracy and increases solar panel output power by 5% to 30% compared to traditional PWM controllers. This unit is an ideal solution for off-grid power systems, RVs, boats, and other applications requiring efficient and reliable solar energy management.

Performance Metrics

Efficiency Improvement

30 %

Max Power Increase

Technical Specifications

Supported Battery Systems	12V, 24V
Controller Technology	MPPT (Maximum Power Point Tracking)

Monitoring & Interface

Real-time Monitoring Data

- PV Voltage
- Battery Voltage
- Load Status
- Charging Current
- Power Output
- Amp-hour Readings

Applications

Recommended Use Cases

Off-grid Systems • RVs • Boats • Photovoltaic Applications