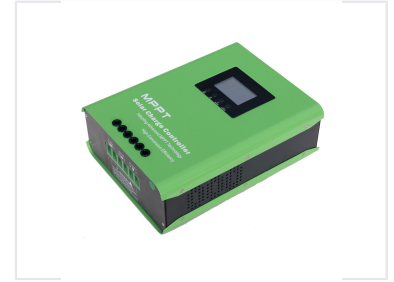


MPPT Solar Charge Controller for 12V 24V 48V Battery Systems

This MPPT solar charge controller provides an efficient and safe multi-stage recharging process. It extends battery life and ensures optimal performance from a solar array, with customized battery recharging capabilities.



ADDITIONAL IMAGES



Product Overview

Advanced MPPT Solar Charge Management

This MPPT Solar Charge Controller utilizes a high-performance TI DSP chip with 12-bit accuracy to ensure precise maximum power point tracking, achieving up to 99% tracking efficiency and 98% conversion efficiency. Designed for versatility, it supports a wide range of battery types including Lead-acid, Gel, and Lithium, and automatically adapts to various system voltages. The unit features robust protection mechanisms against over-voltage, over-current, and short circuits, ensuring reliable, long-term performance for demanding photovoltaic applications.

Performance & Technical Specs

MPPT Tracking Efficiency	99 %
Conversion Efficiency	98 %
Supported Current Ratings	20A, 30A, 40A, 50A, 60A, 100A, 120A

System Compatibility

Automatic System Voltage Detection

- 12V / 24V Auto
- 12V / 24V / 48V Auto
- 48V / 96V Auto

Compatible Battery Types

Lead-acid • Gel • Lithium • User-defined

Safety & Protection

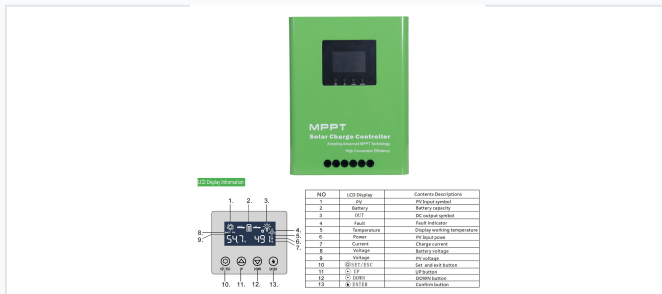


Robust terminal layout for safe and secure installation.

Safety Protections

- Over charge protection
- Over discharge protection
- Overload protection
- Open circuit protection
- Over temperature protection
- Short circuit protection

Monitoring & Interface



User-friendly LCD interface showing PV input, battery status, and navigation controls.



Real-time monitoring of charging modes and system performance metrics.

Real-time Monitoring Metrics

1 V

PV Voltage

2 W

PV Power

3 V

Battery Voltage

4 A

Charging Current