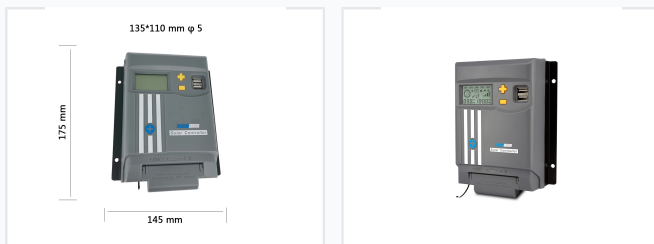


MPPT Solar Charge Controller with LCD and USB

This MPPT solar charge controller optimizes battery charging from solar panels, featuring an LCD display for monitoring. It includes a USB output for charging devices and offers multi-stage charging.



ADDITIONAL IMAGES



Overview

Intelligent MPPT Solar Charge Controller

This advanced MPPT solar charge controller utilizes high-efficiency DC/DC conversion and MCU technology to intelligently adjust the solar array's working point. By continuously tracking the maximum power point, it improves solar panel efficiency by 5% to 30% compared to traditional PWM controllers. Designed for reliability, it features a clear LCD display for real-time monitoring and integrated USB output for convenient device charging.

Technical Specifications

Max Charging Current

- 10
- 20
- 30
- 40

System Rated Voltage	12V/24V Auto recognized
Battery Voltage Range	8V-32V
Max PV Input Voltage	100 V

Performance

Efficiency Metrics

99 %

MPPT Efficiency

98 %

Peak Conversion

Features

Charging Modes

MPPT • Absorption • Float • Equalization

Compatible Battery Types

Sealed, Flooded, GEL, LiFePO4, Li(NiCoMn)O2

Protection

Safety Protections

- High/Low voltage disconnection & recovery
- Overload protection
- Short circuit protection
- Solar panel reverse polarity protection
- Battery reverse polarity protection
- Reverse current protection at night
- USB output overheat & short circuit protection