

50A MPPT Solar Charge Controller for Battery Charging

This intelligent MPPT solar charge controller maximizes energy harvest from solar panels for efficient battery charging. With a 50A charge current capacity, it is suitable for various off-grid solar power systems.



ADDITIONAL IMAGES



Overview

High-Efficiency 50A MPPT Solar Charge Controller

This industrial-grade MPPT solar charge controller is designed to maximize energy harvest from solar panels for off-grid power systems. Featuring 12V, 24V, and 48V auto-recognition, it offers up to 99% tracking efficiency, significantly outperforming standard PWM controllers. It is an ideal solution for RVs, boats, and remote power applications requiring reliable and intelligent battery management.

Performance Metrics

Key Performance Indicators

50 A

Rated Charge Current

99 %

Max Tracking Efficiency

150 Vdc

Max PV Input Voltage

Technical Specifications

System Voltage	12V Auto, 24V Auto, 48V Auto
Control Technology	Industrial-grade Micro Processor Control
Self-Consumption (Night)	1 W

Protection & Safety

Integrated Protections

- Over voltage protection
- Short circuit protection
- Over load protection
- Overcharge protection
- Over-discharge protection
- Reverse connection protection

Features

Advanced Functionality

- Temperature Compensation Function
- Online upgrade capability
- High degree power save function
- Adaptive system recognition

Interface

Available Ports

DC Output • USB 5V • LCD Display

Application

Recommended Use Cases

Off-grid Solar Systems, RVs, Boats, Remote Power