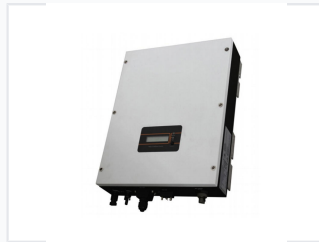


# Solar Charge Controller with MPPT Technology

This solar charge controller regulates voltage and current from solar panels to batteries, preventing overcharging and reverse currents. It uses MPPT technology to optimize power conversion and includes comprehensive system monitoring and protection mechanisms.



## ADDITIONAL IMAGES



## Overview

### Advanced MPPT Solar Energy Management

This high-performance solar charge controller utilizes advanced MPPT tracking technology to maximize energy conversion efficiency, reaching up to 98.5%. Designed for both residential and commercial applications, it features a transformerless, IP65-rated rugged design suitable for diverse environments. The unit includes a user-friendly LCD display for real-time monitoring and supports flexible system scaling through parallel operation.

## Technical Specifications

### Peak Efficiency

**98.5 %**  
Efficiency

### Design Specifications

- IP65 Ingress Protection
- Transformerless topology
- Compact and lightweight chassis
- Integrated LCD monitoring display

### Safety Protections

Overvoltage Protection, Overcurrent Protection, Short Circuit Protection, Reverse Current Protection, Overcharge Prevention

## System Compatibility

### Operational Capabilities

Parallel Operation • Off-grid Ready • Grid-tied Compatible • Indoor/Outdoor Use