

Solar Charge Controller for Battery Management

This solar charge controller efficiently manages battery charging in solar power systems. It regulates voltage and current from solar panels to prevent overcharging and extend battery life.



ADDITIONAL IMAGES



Overview

Advanced Solar Charge Controller

This solar power charge controller is engineered to efficiently manage energy transfer from solar panels to batteries, utilizing micro-computer chips and non-contact control technologies. By providing precise regulation and monitoring, the device directly improves system efficiency and extends the operational lifespan of connected batteries. It features a robust design suitable for various applications, offering both residential and commercial users reliable battery management.

System Capabilities

Supported System Voltages

12V, 24V, 48V

Charging Features

Charging & Control Modes

- PWM Charge
- Floating Charge
- Fast Charge
- Even Charge
- Temperature Compensation
- Battery SOC Regulating
- Optic & Time Control
- Night Starting Function
- Capacity Calculation
- Manual Load Switch
- Over-discharged Auto-recovery

Protection Functions

Safety & Protection Mechanisms

High Voltage Disconnect (HVD) • Low Voltage Disconnect (LVD) • Depth of Discharge Disconnect (DOD) • Over-voltage Protection • Overheated Protection • Load Short-circuit Protection • Battery Open Circuit Protection • Reverse Polarity Protection (Load & Battery) • Solar Panel Reverse Connection Protection • Lightning Proof (Variable Resistor) • Night Anti-reflux • Low Electromagnetic Compatibility (EMC)

User Interface

Interface & Control

- LCD Display for real-time monitoring
- Two-button parameter adjustment
- Automatic system voltage identification