

Hybrid Solar and Wind Charge Controller

This hybrid controller efficiently manages energy from both solar panels and wind turbines. It charges batteries and supplies power to connected loads, with protection against overcharge, over-discharge, and short circuits.



Overview

Hybrid Energy Management Solution

This solar and wind hybrid regulator provides efficient energy management for off-grid power systems and renewable energy projects. By integrating power inputs from both solar panels and wind turbines, it ensures reliable battery charging and load power supply. The unit includes comprehensive protection mechanisms, including safeguards against overcharge, over-discharge, and short circuits, to ensure long-term system stability.

Key Performance Metrics

Operating Parameters

1 V

Battery Voltage

2 A

Charge Current

3 W

Charge Power

4 A

Load Current

Technical Features

Design & Interface

- Dual solar and wind input terminals
- Integrated system status indicator LEDs
- Hybrid power management capability

Safety Protections

Overcharge Protection, Over-discharge Protection, Short Circuit Protection