

50A Automatic Transfer Switch Controller for Solar and Generators

This 50A automatic transfer switch controller seamlessly switches between solar inverters and public power or generators. It prioritizes battery power and automatically switches to a backup power source when the main battery voltage is low.



ADDITIONAL IMAGES



Overview

Seamless Power Management for Off-Grid Systems

This 50A Automatic Transfer Switch (ATS) is designed to upgrade off-grid solar, wind, or hydro systems by providing uninterrupted power during low-resource periods or battery issues. It acts as an 'opposite UPS,' prioritizing battery power and automatically switching to public power or a generator when battery voltage drops. With a fast change-over time of under 16ms, it ensures continuous operation for all connected loads without flickering.

Key Performance Metrics

Performance Highlights

50 A

Max Current

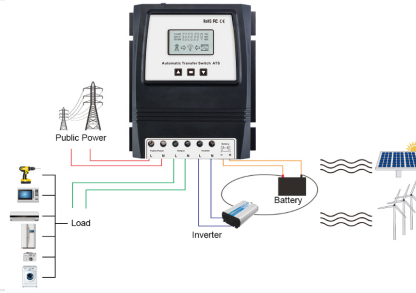
11 kW

Max Power (220V)

10 ms

Inverter to Grid Transfer

Electrical Specifications



Clear terminal markings for Public Power, Load, and Inverter connections ensure easy DIY installation.

Battery System Voltage	12VDC, 24VDC, 48VDC
Input Voltage (AC)	110V / 220V Auto-sensing
Max Power (110VAC)	5.5 kW

Voltage Thresholds

Battery Voltage Protection Settings

System Type	Low Cut-down (Default)	Low Recovery (Default)	Working Range
12V System	11V	13.5V	9-17V
24V System	22V	27V	18-30V
48V System	44V	54V	30-60V

Operation & Monitoring



Real-time LCD monitoring for battery voltage and system status with smart setup capabilities.

Transfer Switching Times

- Inverter to Public Power: d 10ms
- Public Power to Inverter: d 16ms

LCD Monitoring	Public Power Status, Inverter Status, Battery Voltage, Working Status
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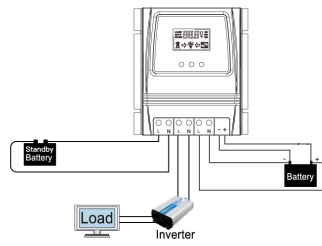
Physical & Compliance

Compliance Certifications

CE • RoHS • FCC

Dimensions	19 x 17 x 7.25 cm
Net Weight	1.26 kg

Application Scenarios



Wiring configuration for standby battery and inverter integration in mobile or off-grid setups.

Supported Installations

- Off-grid Solar/Wind to Grid Power transfer (House, Office, Cabin)
- Intelligent Battery Combiner (RV, Motor home, Boat)
- Generator to Inverter backup systems