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› Bolisila MPPT Solar Charge Controller SY-SLCD 60A User Manual

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Model: SY-SLCD 60A

INTRODUCTION

The Bolisila MPPT Solar Charge Controller is designed for efficient management of solar power systems, supporting 12V, 24V, 36V, and 48V battery systems automatically. It features a multi-function LCD with backlight for dynamic display of operational data and working status. This controller offers easy installation and setup, automatically determining battery voltage upon connection. It includes multiple protection mechanisms against overcharge, over-discharge, overload, short circuit, reverse polarity, overheating, and battery undervoltage.



Image: Bolisila MPPT Solar Charge Controller with a visual representation of its connection to a solar panel, battery, and load (light bulb).

SETUP INSTRUCTIONS

1. System Voltage Compatibility

The controller automatically detects 12V, 24V, 36V, or 48V battery systems. However, the voltage of the photovoltaic (PV) panels used to charge different battery types varies:

- For **12V batteries**, use approximately **18V PV panels**.
- For **24V batteries**, use approximately **30-37V PV panels**.
- For **48V batteries**, use approximately **60-72V PV panels**.

2. Wiring Sequence

Critical: Connect the controller to the battery first, and then to the photovoltaic panel. When disconnecting, reverse this order (disconnect PV panel first, then battery). Failure to follow this sequence can easily cause damage to the controller.

Important Note: Ensure the battery voltage is above a minimum threshold before connecting the PV panel to prevent voltage identification errors:

- 12V battery: Voltage higher than 10V
- 24V battery: Voltage higher than 20V
- 36V battery: Voltage higher than 30V
- 48V battery: Voltage higher than 40V

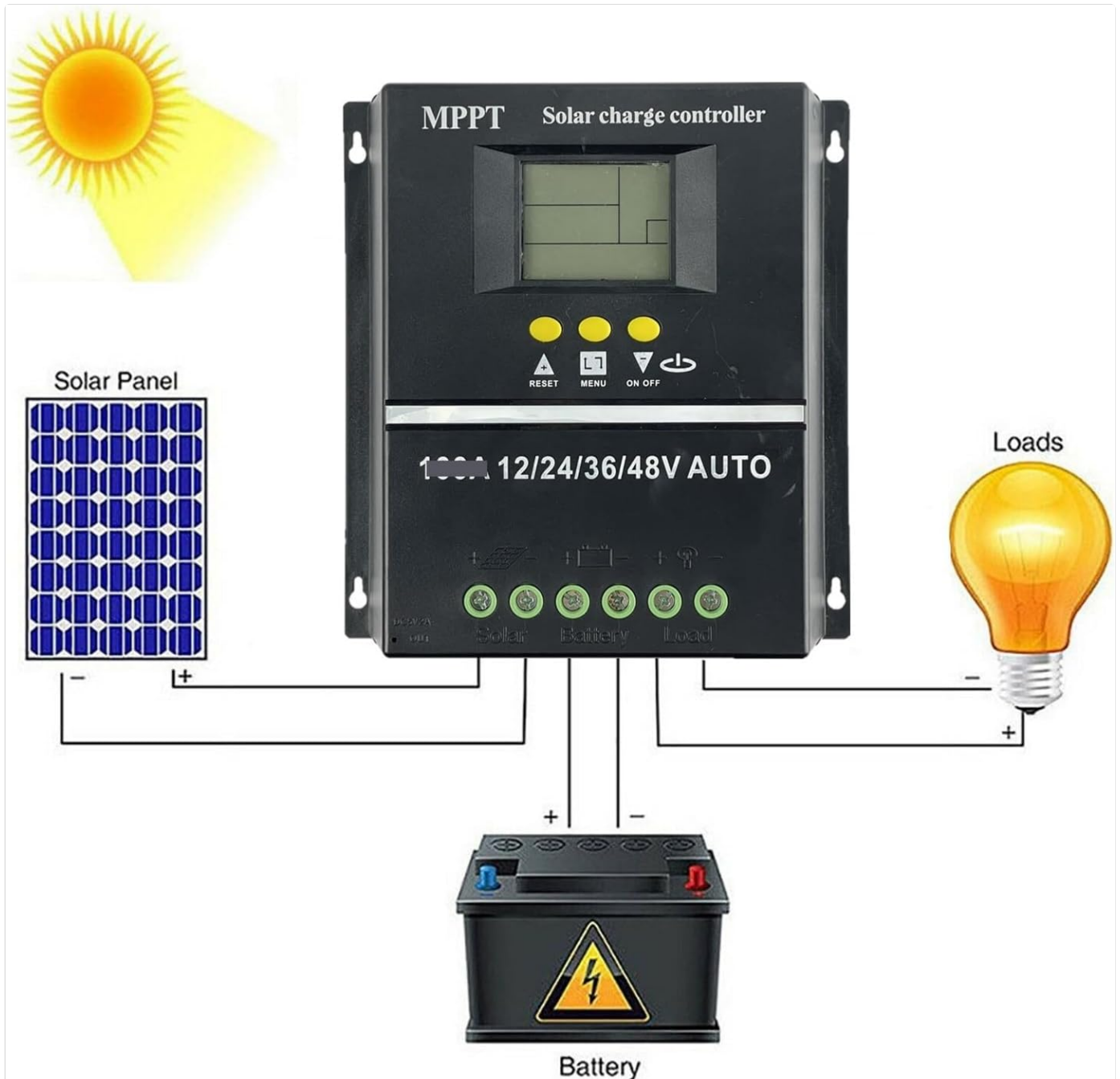


Image: Detailed wiring diagram showing connections for solar panel, battery, and DC load to the solar charge controller.

3. Clock Setting

After the battery is connected, press the **MENU** button to enter the clock setting interface. Use the Up/Down arrow buttons to adjust the time, then short press the **RESET** button to save the settings.

4. Charging Voltage Setting

After connecting the battery and setting the clock, long press the **MENU** button for 3-5 seconds. The screen will display 'L**V' (floating charge voltage). Use the Up/Down arrow buttons to adjust this value. Short press **MENU** again to display 'H**V' (boost charging voltage), which can also be adjusted using the Up/Down arrow buttons. Short press **MENU** one more time to save and exit.

Charging Protection Description:

- For **12V batteries**: Boost charging voltage is higher than 14.8V, then converts to a floating charging voltage of 13.8V.
- For **24V batteries**: Boost charging voltage is higher than 29.6V, then converts to a floating charging voltage of 27.6V.
- For **36V batteries**: Boost charging voltage is higher than 44.4V, then converts to a floating charging voltage of 41.4V.
- For **48V batteries**: Boost charging voltage is higher than 59.2V, then converts to a floating charging voltage of 55.2V.

OPERATING INSTRUCTIONS

LCD Display

The controller features a multi-function LCD with a backlight display and clock. The LCD is designed to dynamically display the operational data and working status of the equipment. This includes real-time information on battery voltage, solar panel input, load status, and charging parameters.

Load Control

Use the **ON/OFF** button to manually control the connected DC load. Refer to the LCD display for the current load status.

MAINTENANCE

To ensure optimal performance and longevity of your solar charge controller, regular maintenance is recommended:

- **Inspect Connections**: Periodically check all wiring connections (solar panel, battery, load) for tightness and signs of corrosion. Loose or corroded connections can lead to power loss or system malfunction.
- **Cleanliness**: Keep the controller clean and free from dust, dirt, and moisture. Use a dry, soft cloth for cleaning. Avoid using harsh chemicals or abrasive materials.
- **Ventilation**: Ensure proper ventilation around the unit. Do not block the ventilation openings, as this can lead to overheating.
- **Environmental Conditions**: Operate the controller within its specified environmental conditions (temperature, humidity) to prevent damage.

TROUBLESHOOTING

The Bolisila MPPT Solar Charge Controller is equipped with multiple protection features to prevent damage and ensure safe operation. If the controller is not functioning as expected, consider the following:

Common Issues and Solutions:

- **No Display/Power:** Check battery connections and ensure the battery voltage is above the minimum threshold for controller activation.
- **No Charging:** Verify solar panel connections and ensure adequate sunlight. Check for any shading on the solar panels. Confirm PV panel voltage is appropriate for the battery system.
- **Load Not Working:** Check load connections. Ensure the load is not exceeding the controller's rated current. Verify the load control setting on the LCD.
- **Error Codes:** Refer to the LCD display for any specific error codes or indicators. Consult the manufacturer's support for detailed explanations of error codes if not provided in this manual.

Protection Features:

The controller includes built-in protection against:

- Overcharge
- Over-discharge
- Overload
- Short circuit
- Reverse polarity
- Overheating
- Battery undervoltage

If any of these protections are triggered, the controller may temporarily cease operation or display a warning. Address the underlying issue before resuming normal operation.

SPECIFICATIONS

Feature	Specification
Brand	Bolisila
Model Number	SY-SLCD 60A
System Voltage	12V/24V/36V/48V Auto
Rated Charge Current	60A
Item Weight	1.54 pounds (700 Grams)
Package Dimensions	1.18 x 0.79 x 0.39 inches
Manufacturer	Bolisila



Image: Physical dimensions of the Bolisila MPPT Solar Charge Controller, indicating a width of 190mm and a height of 180mm.

WARRANTY AND SUPPORT

For warranty information, technical assistance, or any product-related inquiries, please contact the manufacturer, Bolisila, or your authorized retailer. Keep your purchase receipt as proof of purchase for warranty claims.

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