

Hosyond H-016

Hosyond DC 6.5-100V 0-100A Digital Power Monitoring Meter User Manual

Model: H-016 | Brand: Hosyond

1. INTRODUCTION

The Hosyond DC 6.5-100V 0-100A Digital Power Monitoring Meter (Model H-016) is a versatile 4-in-1 device designed to monitor and display voltage, current, active power, and electric energy simultaneously. It features a large-screen LCD with a blue backlight for clear readability and includes a 100A current shunt for convenient installation. This module is suitable for various DC power monitoring and management applications in household, commercial, and industrial settings.

2. PRODUCT FEATURES

- **4-in-1 Monitoring:** Simultaneously displays voltage, current, active power, and electric energy.
- **Integrated Shunt:** Includes a 100A current shunt for simplified wiring.
- **Large LCD Display:** Clear digital display with blue backlight.
- **One-Button Control:** Manually turn the backlight on/off, reset energy data, and preset power alarm limits.
- **Overload Alarm:** Backlight and power value flash when a preset power limit is exceeded.
- **Data Storage:** Automatically stores the last test data upon power loss.

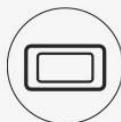
Multiple Product Features



4 In 1 Electrical Parameter Monitoring



Power Overload Flashing Alarm



Large-Screen LCD Display



Backlight Control On/Off



Power Data Reset



Power-Off Data Storage



Blue Backlight Function



Voltage Alarm Function

Figure 1: Overview of Product Features.

3. PACKAGE CONTENTS

- 1x Hosyond Power Monitoring Meter (Model H-016)
- 1x 100A Current Shunt
- 1x User Manual

4. SPECIFICATIONS

Dimensions (Meter)	89.6mm (L) x 49.6mm (W) x 24.4mm (H)
Recommended Cutout Dimensions	87mm (L) x 47mm (W)
Working Voltage	DC 6.5 ~ 100V
Measuring Accuracy	1%

Power Consumption	0.2W
Measurement Speed	2 times/second
Active Power Test Range	0 ~ 10kW
Energy Test Range	0 ~ 9999kWh
Voltage Test Range	DC 6.5 ~ 100V
Current Test Range	0 ~ 100A
Item Weight	7.7 Ounces
Compliance	UL 61010-1, IEC 61010-2-030

Size of Item



Figure 2: Physical Dimensions of the Meter and Shunt.

5. SAFETY PRECAUTIONS

- This module is designed for DC 6.5~100V power systems only. Do not use with AC power or outside the specified DC voltage range.
- Ensure the applied load does not exceed the rated power of the meter (100A, 10kW).
- Verify wiring order carefully to prevent damage to the device or system. Incorrect wiring can lead to malfunction or hazards.
- This module is suitable for indoor applications only. Avoid outdoor use to protect against environmental elements.

6. PRODUCT OVERVIEW AND BUTTON FUNCTIONS

The meter features a single button for controlling various functions:

- **Backlight Control:** A short press of the button toggles the blue backlight on or off.
- **Data Clear:** To clear the accumulated energy data (kWh), press and hold the button for 5 seconds until the display flashes. Then, short press the button again to confirm and clear the data.
- **Power Alarm Value Setting:** To set the power alarm limit, press and hold the button for 3 seconds. The display will flash, allowing you to adjust the power limit. Short press to cycle through values, long press to confirm.

VOLTAGE

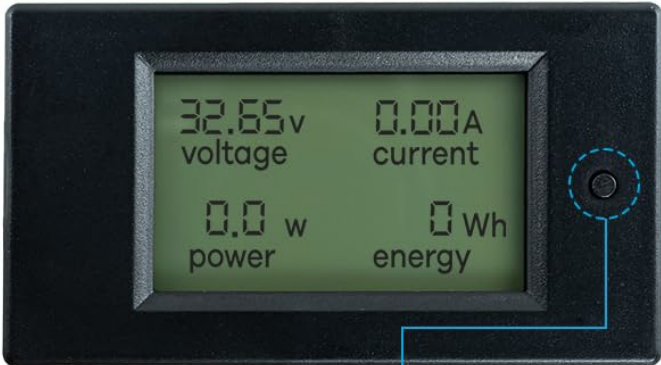
Test range 0~9999KWH
 <10KWH is displayed as:
 0~9999WH ≥10KWH is
 displayed as: 10~9999KWH

CURRENT

Test range: 0~100A
 Accuracy: ≤1%, the lower the better
 Display format: 6.50~99.99V
 Display format: 0.00~99.99AA

Power

Test range 0~10KW
 <1KW display: 0.0~999.9W
 ≥1KW is displayed as:
 1000~9999w



ENERGY

Test range 0~9999KWH
 <10KWH is displayed as:
 0~9999WH ≥10KWH is
 displayed as: 10~9999KWH

Function of Button

Backlight Control:
 Short press to control the backlight on/off.

Data cleared:
 Long press for 5 seconds, then short press again after flashing

Power alarm value setting:
 Long press for 3 seconds, short press to set power value after flashing

Figure 3: Button Functions and Display Information.

Video 1: Demonstration of the Hosityond DC Power Meter with Shunt, showing basic operation and button functions.

7. INSTALLATION

7.1. Wiring Instructions

The meter requires a 100A current shunt for current measurement. The shunt must be placed in the circuit, and the meter connects to the shunt and the power source. The meter does not come with wires; 30AWG to 12AWG copper wires are suitable for connecting the meter.

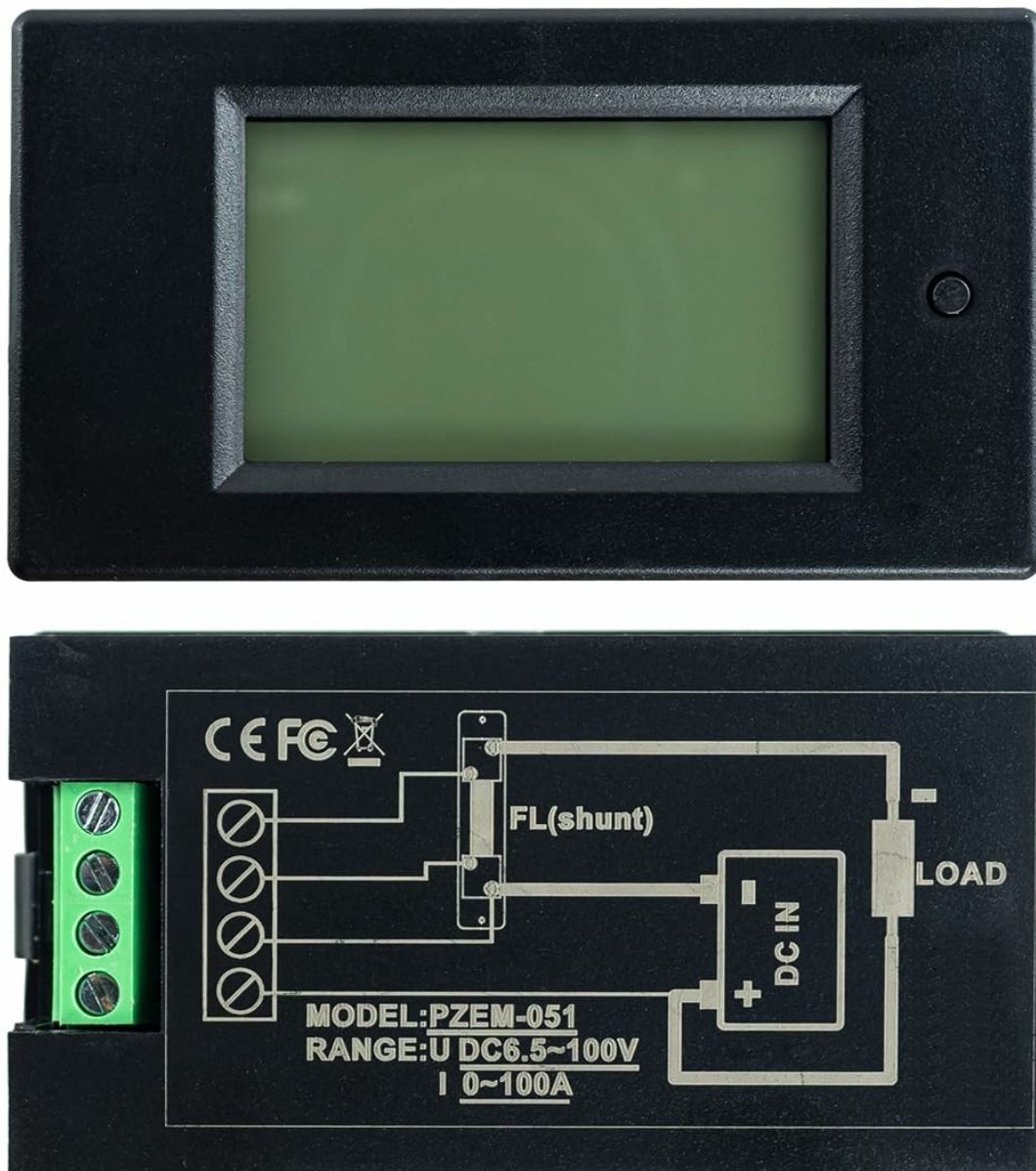


Figure 4: Back of Meter Wiring Diagram.

Step 1: Place the Shunt in the Circuit

The shunt can be connected on either the positive or negative side of the load. Ensure the main current flows through the shunt.

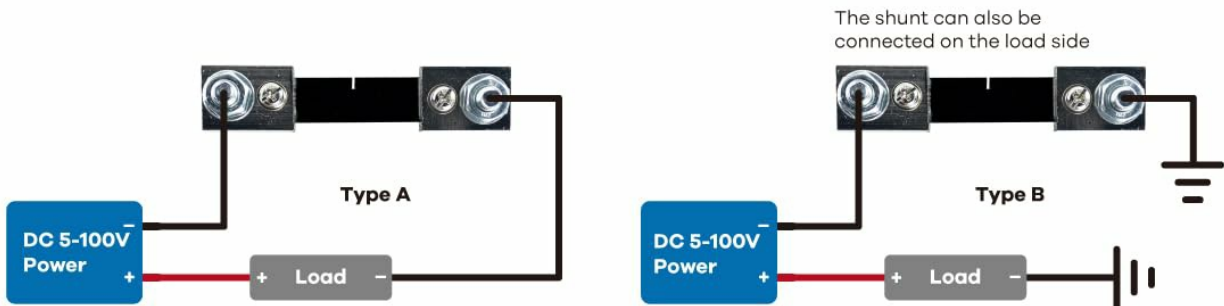
Type A (Shunt on Negative Side): Connect the DC 5-100V power source positive to the load positive. Connect the DC 5-

100V power source negative to one side of the shunt. Connect the other side of the shunt to the load negative.

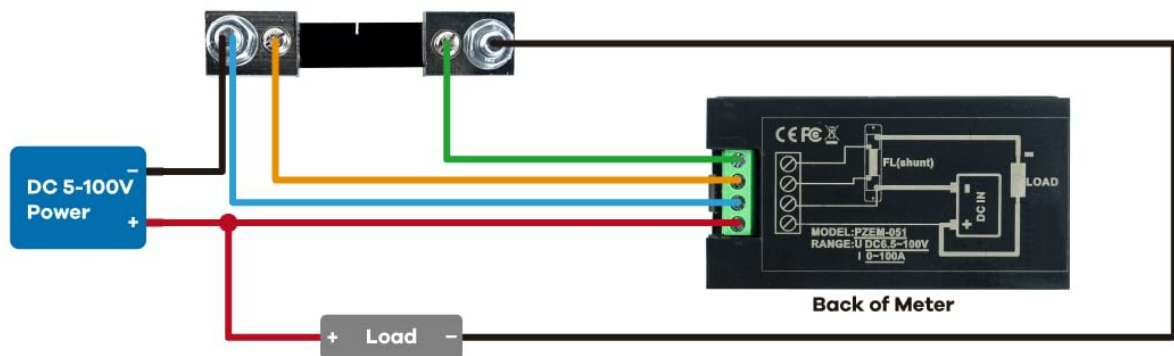
Type B (Shunt on Positive Side): Connect the DC 5-100V power source negative to the load negative. Connect the DC 5-100V power source positive to one side of the shunt. Connect the other side of the shunt to the load positive.

WIRING INSTRUCTION

Step 1: Place the shunt in the circuit



Step 2: Connect the meter with 4 wires (not included). 30-12AWG copper wires.



NOTE:

1. No wires included. As there's no large current flowing through the meter, any 30AWG-12AWG copper wires are suitable.
2. The shunt CAN'T be placed on the positive side. You can connect it near the battery negative or near the load negative according to your convenience.
3. Cut off the power when you wire the meter. Connect the blue and red lines firstly then the yellow and blue lines.
4. ZERO CURRENT issue are mostly caused due to wrong wiring. Connect a most simple battery-shunt-load circuit to test the meter first.
5. ALL 888s issues are mostly caused due to interference from load.
6. Our tech support are available from Monday to Sunday. If there's any question, please feel free to contact us.

Figure 5: General Wiring Instruction.

Step 2: Connect the Meter with 4 Wires (Not Included)

Connect the four wires from the meter's terminal block to the shunt and the DC input as follows:

- Connect the red wire (positive power for meter) to the positive terminal of the DC 5-100V power source.
- Connect the black wire (negative power for meter) to the negative terminal of the DC 5-100V power source.
- Connect the yellow wire (voltage sense) to the positive side of the shunt (or the positive side of the load, depending on shunt placement).
- Connect the green wire (current sense) to the negative side of the shunt (or the negative side of the load, depending on shunt placement).

Important Notes:

- No large current should flow through the meter's small wires; only the shunt handles the main current.

- The shunt cannot be placed on the positive side if the meter's power supply shares the same ground as the load. Connect it near the battery negative or load negative for convenience.
- Always cut off power before wiring. Connect the blue and red lines first, then the yellow and green lines.
- Zero current issues are often caused by incorrect wiring. Connect a simple battery-shunt-load circuit to test the meter first.
- All "888s" display issues are typically caused by interference from the load.

7.2. Monitoring RV Battery

The meter can be used to monitor RV battery performance. The 4 wires connected to the meter can be any copper wire from 30AWG to 12AWG.

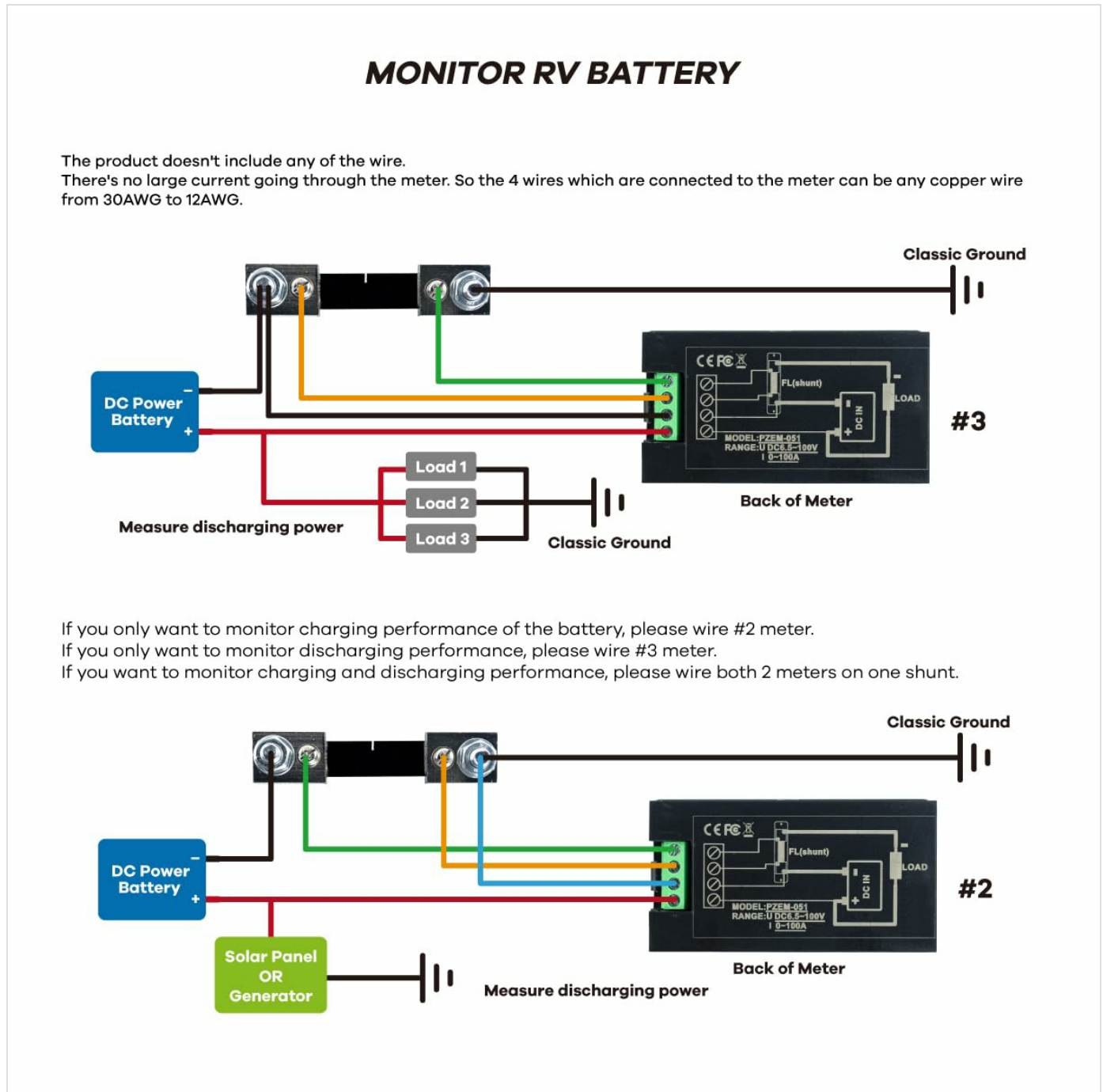


Figure 6: RV Battery Monitoring Wiring.

- If you only want to monitor charging performance, use wiring configuration #2.
- If you only want to monitor discharging performance, use wiring configuration #3.
- To monitor both charging and discharging performance, wire both meters on one shunt.

7.3. Solar System Wiring Instruction

This diagram illustrates wiring for a solar system where the inverter connects directly to the battery. The meter does not include wires; 30AWG to 12AWG copper wires are suitable.

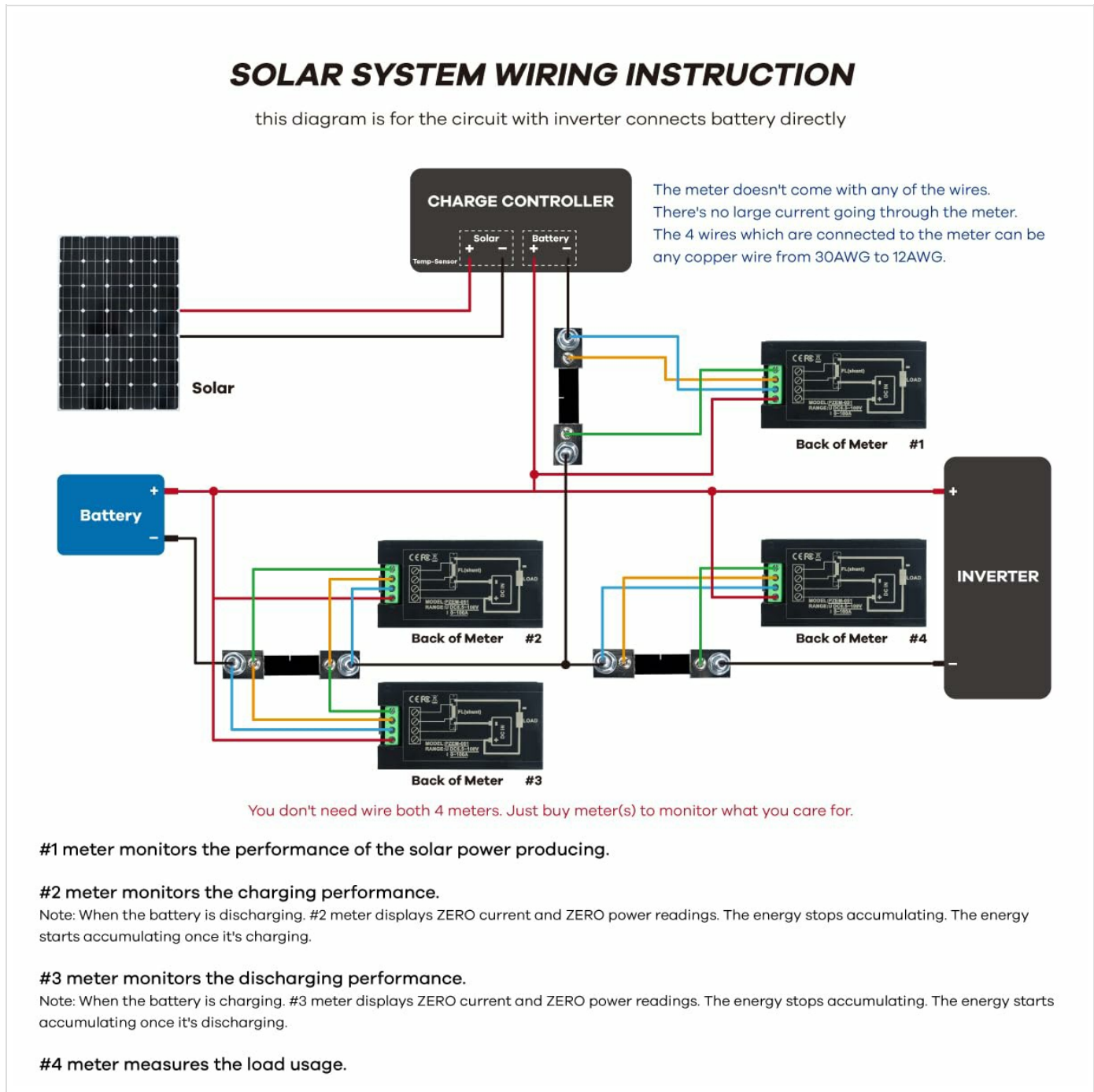


Figure 7: Solar System Wiring Diagram.

- **Meter #1:** Monitors the performance of solar power production.
- **Meter #2:** Monitors charging performance. When the battery is discharging, Meter #2 displays zero current and power readings. Energy accumulation stops during discharge.
- **Meter #3:** Monitors discharging performance. When the battery is charging, Meter #3 displays zero current and power readings. Energy accumulation stops during charge.
- **Meter #4:** Measures the load usage.

8. OPERATION

Once correctly installed and powered, the meter will display real-time voltage, current, power, and accumulated energy. Use the single button on the front panel to control the backlight, reset energy data, or set alarm limits as described in Section 6.

9. MAINTENANCE

- Keep the device clean and free from dust and moisture.
- Avoid exposing the meter to extreme temperatures or direct sunlight for prolonged periods.
- Do not attempt to disassemble or modify the device, as this will void the warranty and may cause damage or injury.
- Regularly check all wiring connections to ensure they are secure and free from corrosion.

10. TROUBLESHOOTING

- **No Display:** Check power connections to the meter. Ensure the DC input voltage is within the 6.5V to 100V range.
- **Incorrect Readings:** Verify all wiring, especially the sense wires to the shunt. Ensure the shunt is correctly installed in the main current path.
- **"888s" Display:** This indicates potential interference. Check for stable power supply and proper grounding. Ensure the meter's small wires are not carrying high current.
- **Energy Data Not Resetting:** Follow the data clear procedure (long press for 5 seconds, then short press) carefully.
- **Backlight Issues:** Use a short press of the button to toggle the backlight. If it remains off, check power supply.

11. WARRANTY AND SUPPORT

For warranty information or technical support, please contact Hosityond customer service through your purchase platform or the official Hosityond website. Keep your purchase receipt for warranty claims.

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