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Kohree 50A LED Display 16000J

Kohree RV Surge Protector 50 Amp with LED Display (16000 Joules)

Instruction Manual

1. Introduction

The Kohree 50 Amp RV Surge Protector is designed to safeguard your recreational vehicle's electrical system and appliances from power surges and voltage fluctuations. This device features an advanced circuit analyzer with an LED display, providing real-time voltage readings and diagnostic codes. With 16000 joules of surge protection and an automatic shut-off function, it ensures a safe and stable power supply for your RV, camper, or travel trailer.

2. Safety Information

- Always ensure the power source is off before connecting or disconnecting the surge protector.
- Do not use the surge protector if it appears damaged or if the housing is compromised.
- Verify the power pedestal's wiring status using the circuit analyzer before connecting your RV.
- The device is designed for outdoor use and is IP67 waterproof; however, avoid submerging it in water.
- Keep children away from electrical connections.
- Ensure proper ventilation around the unit during operation.

3. Setup and Installation

1. **Inspect the Power Pedestal:** Before connecting, visually inspect the power pedestal for any visible damage or signs of wear.
2. **Connect the Surge Protector:** Plug the male end of the Kohree RV Surge Protector into the 50 Amp receptacle on the power pedestal. Ensure a firm connection.
3. **Verify Power Source:** Observe the LED display on the surge protector. The display will show the line voltage and indicate the wiring status. A green light indicates a correct and safe wiring configuration with voltage between 104V and 132V.
4. **Connect Your RV:** Once the green light is on and the voltage is within the safe range, plug your RV's 50 Amp power cord into the female receptacle of the surge protector.
5. **Secure the Waterproof Cover:** Utilize the integrated waterproof cover to protect the connection from environmental elements such as rain, snow, and dust.



Figure 3.1: Steps for connecting the RV Surge Protector to a power source.

4. Operation

The Kohree RV Surge Protector continuously monitors the incoming power supply to your RV. Its LED display provides real-time feedback on voltage and wiring status, ensuring your electrical system is protected.

Real-time LED Display

The integrated LED screen displays the current line voltage (L1 and L2) and provides diagnostic codes for any detected wiring faults. A green indicator light confirms a safe and correctly wired power source.

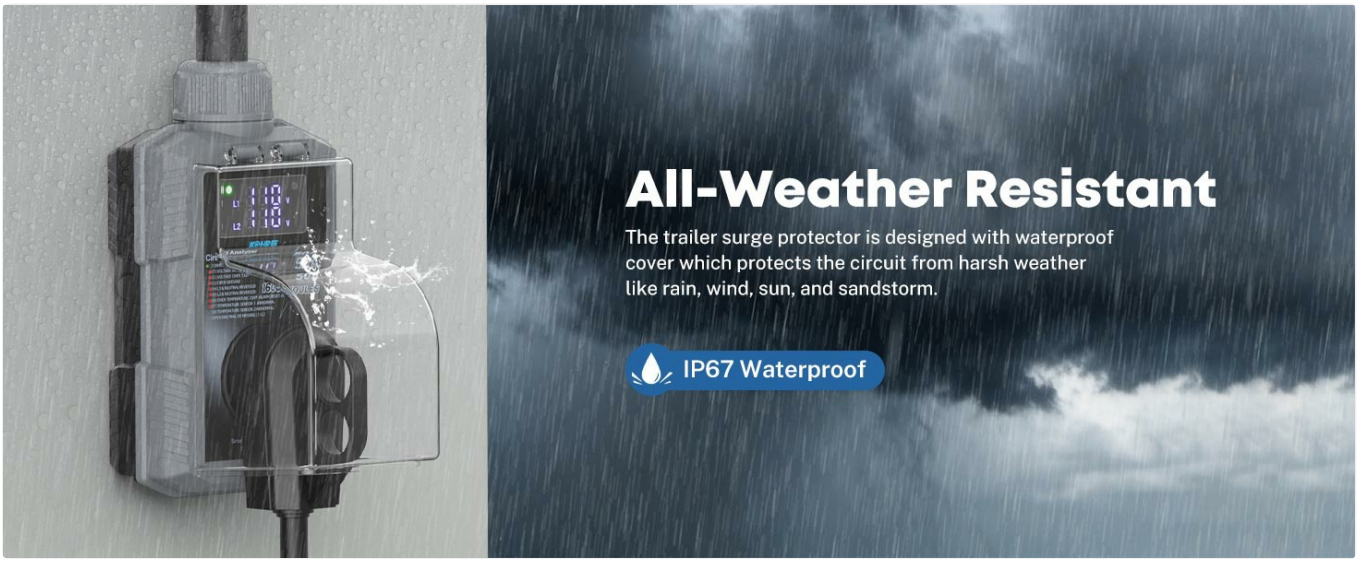


Figure 4.1: Smart LED Display showing real-time voltage and wiring status.

Automatic Voltage Cut-off

The surge protector is equipped with an intelligent circuit analysis function that automatically disconnects power to your RV if the voltage drops below 104V (low voltage) or exceeds 132V (high voltage). This prevents potential damage to your RV's electrical components and appliances. Once the voltage returns to a safe operating range, the unit will automatically reconnect the power without manual intervention.



Figure 4.2: Automatic voltage protection and disconnection thresholds.

5. Circuit Analyzer Display Codes

The LED display provides specific codes to indicate the status of the power source. Refer to the table below for an explanation of each code and recommended actions.

Screen Display	Status	Result	Next Step

Screen Display	Status	Result	Next Step
Green Light + Voltage	Correct Green Light Displays Voltage (104-132V)	✔	Plug in your RV
E1	Voltage Below 104V	X	Contact RV park management to fix the power issue or connect to a different pedestal (power source)
E2	Voltage Over 132V	X	
E3	Open Ground	X	
E4	L1 & Neutral Reversed	X	
E5	L2 & Neutral Reversed	X	
E6	Over Temperature 230°F Alarm, Reset at 140°F	X	
E7	Temperature Sensor 1 Abnormal	X	
E8	Temperature Sensor 2 Abnormal	X	
No L1/L2 or Neutral	Open Neutral or Missing L1/L2	X	Contact RV park management to fix the power issue or connect to a different pedestal (power source)



Figure 5.1: Circuit Analyzer Wiring LED Indicators and troubleshooting guide.

6. Maintenance

- **Cleaning:** Wipe the exterior of the surge protector with a damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Storage:** When not in use, store the surge protector in a cool, dry place away from direct sunlight.
- **Waterproof Cover:** Ensure the waterproof cover is properly seated over the connections to prevent moisture ingress. The large waterproof cover design accommodates most RV power plugs.
- **Regular Inspection:** Periodically check the unit and its cables for any signs of damage, fraying, or corrosion.

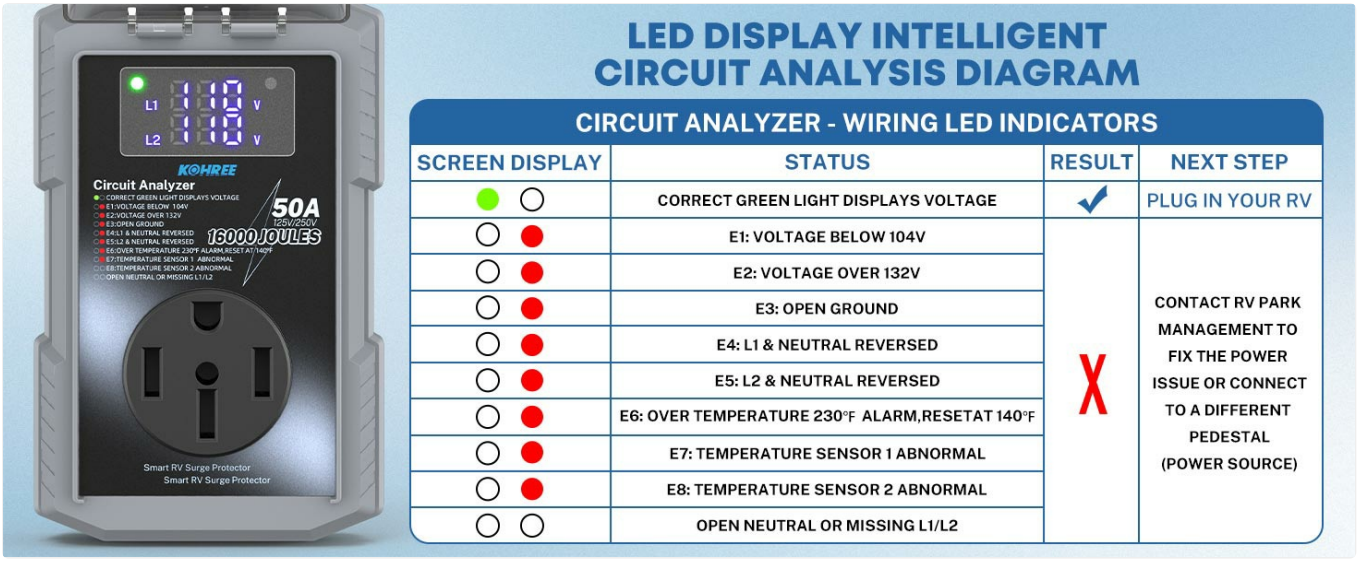


Figure 6.1: Large waterproof cover design for enhanced protection.

7. Troubleshooting

If you encounter issues with your Kohree RV Surge Protector, refer to the Circuit Analyzer Display Codes table in Section 5. Here are some general troubleshooting steps:

- **No Display/No Power:** Ensure the surge protector is fully plugged into the power pedestal. Check the power pedestal's breaker.
- **Error Code Displayed:** Consult the 'Circuit Analyzer Display Codes' table (Section 5) for the specific error and recommended action. Most errors indicate a fault with the power source, requiring attention from RV park management or switching to a different pedestal.
- **Automatic Disconnection:** If the unit disconnects power, it is likely due to voltage outside the safe operating range (below 104V or above 132V). The unit will automatically reconnect when voltage stabilizes. If frequent disconnections occur, the power source may be unstable.
- **Unit Feels Warm:** Some warmth during operation is normal. If the unit becomes excessively hot or displays an E6 (Over Temperature) code, disconnect power immediately and allow it to cool. Ensure adequate ventilation.

8. Specifications

Feature	Specification
Model	50A LED Display 16000J
Current Rating	50 Amp
Surge Protection	16000 Joules
Voltage Range (Operating)	104V - 132V
Voltage (Nominal)	125/250V
Maximum Wattage	12500 W
Waterproof Rating	IP67
Display Type	LED Digital Display
Material	Flame-retardant housing, pure copper, high-strength PVC
Color	Gray



Figure 8.1: Key product specifications and plug types.



Figure 8.2: Product dimensions and internal material quality.

9. Warranty and Support

This Kohree RV Surge Protector comes with a **1-Year Warranty** from the date of purchase, covering defects in materials and workmanship under normal use. For warranty claims or technical support, please contact Kohree customer service through the retailer where the product was purchased or visit the official Kohree website for contact information.

Please have your purchase receipt and product model information available when contacting support.

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