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> Kohree RV Surge Protector 50 amp with LED Real-time Large Screen Display Voltage Current KWH, 16000 Joules Auto Shut Off, Circuit Analyzer RV Power Surge Protector Waterproof for Camper, Gray Gray, Real-time Display 50A, 16000 Joules

Kohree KR6485-RS-US-FBA

Kohree RV Surge Protector 50 Amp Instruction Manual

Model: KR6485-RS-US-FBA

INTRODUCTION

The Kohree RV Surge Protector is designed to safeguard your RV's electrical system and appliances from power fluctuations and surges. Equipped with a real-time LED display, it provides essential information about the power input, ensuring a safe and worry-free connection for your recreational vehicle.

KEY FEATURES

- **Large Screen Monitoring:** High-definition LED display shows real-time voltage, current, and KWH, allowing continuous monitoring of power input.
- **16000 Joules Surge Protection:** Absorbs high-voltage spikes within 1 nanosecond, protecting electrical systems from surges caused by thunderstorms, grid switching, and other disturbances.
- **Automatic Power Cut-Off Protection:** Intelligently cuts off power if voltage drops below 104V (low voltage) or exceeds 132V (high voltage) to prevent equipment damage. Automatically reconnects when voltage normalizes.
- **IP67 Waterproof Design:** Features an extra-large waterproof cover that fits all plug types, ensuring stable operation in rain, snow, wind, and sandstorms.
- **Safe & Easy to Use:** Constructed with fireproof materials and heavy-duty PVC for durability and safety. Ergonomic anti-slip handle facilitates easy plugging and unplugging.
- **Patented Plug Design:** The design of the plug is patented (Patent No.: US D963,583 S).



Image: The Kohree RV Surge Protector with its large LED display and product packaging.

PROTECT YOUR CIRCUITS

From sudden power surges of up to 16000 joules from lightning stroke



16000J
Surge Protection

Image: Internal view of the surge protector highlighting its 16000 Joules surge protection capability.

PROTECT POWER AND ELECTRONIC DEVICES FROM LIGHTNING STRIKES



Image: The surge protector connected to an RV, illustrating protection against lightning strikes.

SETUP INSTRUCTIONS

1. **Inspect the Power Pedestal:** Before connecting, visually inspect the RV power pedestal for any visible damage or signs of wear.
2. **Connect the Surge Protector:** Plug the Kohree RV Surge Protector directly into the 50A NEMA 14-50R power

outlet on the RV power pedestal. Ensure a firm and secure connection.

3. **Check the Display:** Once plugged in, the LED display on the surge protector will light up and perform a circuit analysis. Observe the display for any error codes (refer to the Troubleshooting section for details).
4. **Connect Your RV:** If the display shows "NORMAL CIRCUITRY" or a normal display of all screen items, indicating a safe connection, plug your RV's 50A power cord into the receptacle on the Kohree RV Surge Protector.
5. **Secure the Waterproof Cover:** Ensure the extra-large waterproof cover is properly closed over the connections to protect against environmental elements.

PRODUCT INFORMATION



50A NEMA 14-50P



50A NEMA 14-50R

Image: The surge protector connected to an RV power pedestal, showing the 50A NEMA 14-50P plug.

SMART RV SURGE PROTECTOR



Real-time
voltage display



16000J
Surge Protection



All-in-One Circuit
Analysis Function



Heavy-Duty PVC



High and
low voltage auto
power off function



Fireproof Shell



Image: The surge protector in use, connected to a power pedestal with an RV in a natural setting.

Your browser does not support the video tag.

Video: Official product video demonstrating the connection and display features of the Kohree RV Surge Protector.

OPERATING THE DEVICE

The Kohree RV Surge Protector features a real-time LED display that provides critical electrical information.

Understanding these readings is key to monitoring your RV's power supply.

- **Voltage (V):** Displays the incoming voltage from the power source. Ensure this remains within the safe operating range of 104V-132V.
- **Current (A):** Shows the real-time current (amperage) being drawn by your RV.
- **Kilowatt-hour (KWH):** Tracks the total energy consumption over time. This can be useful for monitoring usage during your stay.
- **Circuit Analysis:** The display also indicates the status of the circuit, providing immediate feedback on wiring conditions.



MORE THAN BASIC PROTECTION: ALL-IN-ONE CIRCUIT ANALYZER

RV 50A

Real-time Large Screen Display



Real-time Readings of L1 Voltage, L1 Current, L2 Voltage, L2 Current, Power and KWH

Fault Status Display



NORMAL CIRCUITRY:
NORMAL DISPLAY OF ALL
SCREEN ITEMS



E1: VOLTAGE BELOW 104V



E2: VOLTAGE OVER 132V



E3: OPEN GROUND



E4: L1 & NEUTRAL REVERSED



E5: L2 & NEUTRAL REVERSED



**E6: OVER TEMPERATURE 230°F
ALARM, RESET AT 140°F**



**E7: TEMPERATURE SENSOR
1 ABNORMAL**



**E8: TEMPERATURE SENSOR
2 ABNORMAL**

**NO SCREEN DISPLAY:
OPEN NEUTRAL OR MISSING
L1/L2 125V**

Image: The real-time large screen display showing various readings and fault status indicators.

MAINTENANCE

The Kohree RV Surge Protector is designed for durability and minimal maintenance. Follow these guidelines to ensure its longevity and optimal performance:

- **Keep Connections Dry:** Always ensure the waterproof cover is securely closed when the unit is in use, especially in wet or dusty conditions.
- **Regular Inspection:** Periodically check the unit and its cables for any signs of physical damage, fraying, or corrosion. Do not use if damaged.
- **Cleanliness:** Wipe down the unit with a damp cloth as needed to remove dirt or debris. Avoid using harsh chemicals or abrasive cleaners.
- **Storage:** When not in use, store the surge protector in a cool, dry place away from direct sunlight and extreme temperatures.



Image: Detail of the large waterproof cover, designed to protect connections from the elements.

TROUBLESHOOTING

The LED display provides diagnostic codes to help identify potential issues with the power supply. Refer to the table below for common fault statuses and recommended actions:

Status	Result	Next Step
NORMAL CIRCUITRY	Normal display of all screen items	Plug in your RV
E1	Voltage below 104V	Contact RV park management to fix the power issue or connect to a different pedestal (power source)
E2	Voltage over 132V	Contact RV park management to fix the power issue or connect to a different pedestal (power source)
E3	Open Ground	Contact RV park management to fix the power issue or connect to a different pedestal (power source)
E4	L1 & Neutral Reversed	Contact RV park management to fix the power issue or connect to a different pedestal (power source)
E5	L2 & Neutral Reversed	Contact RV park management to fix the power issue or connect to a different pedestal (power source)
E6	Over Temperature 230°F / Alarm Reset at 140°F	Contact RV park management to fix the power issue or connect to a different pedestal (power source)
E7	Temperature Sensor 1 Abnormal	Contact RV park management to fix the power issue or connect to a different pedestal (power source)
E8	Temperature Sensor 2 Abnormal	Contact RV park management to fix the power issue or connect to a different pedestal (power source)
NO SCREEN DISPLAY	Open Neutral or Missing L1/L2 125V	Contact RV park management to fix the power issue or connect to a different pedestal (power source)

PROTECTING YOUR RV FROM UNSTABLE VOLTAGE



<104V

E1 code will be displayed
and the power will be disconnected



>132V

E2 code will be displayed
and the power will be disconnected



104V<V<132V

Kohree will work properly

Protect your RV's electrical system and expensive appliances

Image: Visual representation of voltage protection thresholds and corresponding error codes (E1, E2).

SPECIFICATIONS

Attribute	Value
Brand	Kohree

Attribute	Value
Model Number	KR6485-RS-US-FBA
Current Rating	50 Amp
Voltage Rating	125/250V
Surge Protection	16000 Joules
Waterproof Rating	IP67
Item Weight	3.16 pounds
Package Dimensions	17.24 x 6.18 x 5.24 inches

PRODUCT SIZE



Image: Product dimensions for the Kohree RV Surge Protector.

For further assistance, please contact Kohree customer support.

