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› VIPTOO RV Surge Protector 30 Amp (Model DD232) Instruction Manual

## VIPTOO DD232

# VIPTOO RV Surge Protector 30 Amp (Model DD232) Instruction Manual

Model: DD232 | Brand: VIPTOO

## 1. INTRODUCTION

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The VIPTOO RV Surge Protector 30 Amp (Model DD232) is designed to safeguard your recreational vehicle's electrical system and appliances from power fluctuations. This device provides comprehensive protection against power surges, lightning strikes, and electrical faults, ensuring a safe and stable power supply for your RV. It features a smart LED display for real-time monitoring and a replaceable surge module for extended product life.

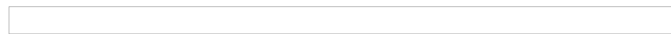


Figure 1: VIPTOO RV Surge Protector 30 Amp (Model DD232)

## 2. KEY FEATURES

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- **Powerful 30 Amp Surge Protection:** Delivers 10,000 joules of protection against power surges, lightning strikes, and power outages.
- **Replaceable Surge Module:** Features a removable internal surge module, allowing for cost-effective replacement after a major surge event without replacing the entire unit.
- **Circuit Analyzer with Real-Time Monitoring:** Tests power quality and detects common electrical faults. The 1.77-inch LED display provides real-time voltage readings and clear error code indicators.
- **IP65 Waterproof & Oversized Cover:** Designed with a weatherproof housing and an oversized protective cover to fit various RV power plugs, safeguarding connections from environmental elements.
- **User-Friendly Design:** Equipped with an ergonomic handle for easy plug-in and removal, built to FCC and RoHS standards for durability and safety.

# 10000 Joules

RV surge Protector



Figure 2: Robust design with 10,000 Joules protection, rugged handle, and anti-theft ring.



Figure 3: All-weather protection against sun, electricity, and rain.

### 3. WHAT'S IN THE BOX

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- VIPTOO RV Surge Protector 30 Amp with Screen Display (1 unit)

### 4. SETUP INSTRUCTIONS

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1. Ensure the park power breaker is in the OFF position.
2. Plug the RV Surge Protector (Model DD232) directly into the park power pedestal without the RV attached.
3. Turn on the park power breaker. The RV Surge Protector will automatically start to analyze the power quality.
4. Once the display shows Energy, Watt, Volt, and Amp readings, it is ready for use.
5. Turn the breaker OFF, plug in your RV's power cord to the surge protector, and then turn the breaker ON.



Figure 4: Connecting the surge protector to the power pedestal.



Figure 5: Step-by-step guide for easy setup and use.

## 5. OPERATING INSTRUCTIONS

The 1.77-inch smart LED display provides real-time information about your power connection. Monitor the following readings:

- **Energy (WH):** Total energy consumed.

- **Watt (W):** Instantaneous power consumption.
- **Volt (V):** Real-time voltage of the power supply.
- **Amp (A):** Real-time current draw.

These readings help you understand your RV's power usage and ensure the power supply is within safe operating parameters.



Figure 6: Real-time display of energy, wattage, voltage, and amperage.

## 6. MAINTENANCE: REPLACEABLE SURGE MODULE

A unique feature of the VIPTOO RV Surge Protector (Model DD232) is its replaceable internal surge module. In the event of a significant power surge that compromises the module's protective capabilities, you do not need to replace the entire unit. Simply replace the damaged surge module with a new one (compatible part: DD232M-30A).

### Replacement Steps:

1. Unplug the unit from all power sources.
2. Remove the 4 screws on the back panel of the surge protector.
3. Carefully remove the damaged surge module.
4. Install the new surge module, ensuring it is properly seated.

5. Reassemble the back panel with the 4 screws.
6. Plug the unit back in and test its functionality.



Figure 7: Illustration of the replaceable surge module.



Figure 8: Benefit of replaceable module: no need to replace the entire unit.

## 7. TROUBLESHOOTING: ERROR CODES

The LED display will show specific error codes if electrical problems are detected. Refer to the table below to

identify and address common issues:

Error Code	Description
E1	Open Ground
E2	Please Change Surge Board
E3	Over Current
E4	Over Temperature
E5	L1 & Neutral Reversed
E6	L2 & Neutral Reversed
E7	Missing L1 125V
E8	Missing L2 125V
E9	Open Neutral

If an error code appears, immediately unplug the unit and consult the table to diagnose the problem. Address the underlying electrical issue before reconnecting.

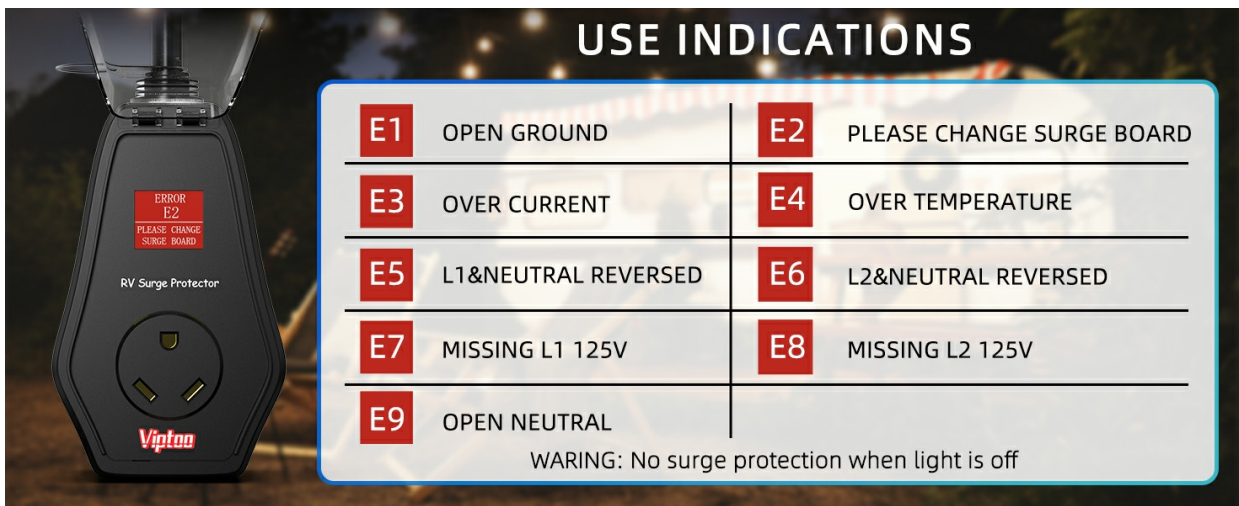


Figure 9: Visual guide to error codes and their meanings.

## 8. SPECIFICATIONS

Specification	Value
Model	DD232
Amperage	30 Amps
Surge Protection	10,000 Joules
Display	1.77" Smart LED Display
Waterproof Rating	IP65
Material	Rubber
Item Weight	2.42 pounds
Package Dimensions	11.3 x 6.14 x 5.2 inches
Certifications	FCC, RoHS

## 9. SAFETY INFORMATION

- Do not submerge the unit in water.
- Always use the unit in an upright position.
- Take preventative measures before connecting your portable unit to the pedestal and/or electrical power.
- Confirm that the surge protection unit is connected directly to the power source.
- Keep away from children and pets.
- Do not repair or modify the unit yourself. Contact qualified personnel for service.

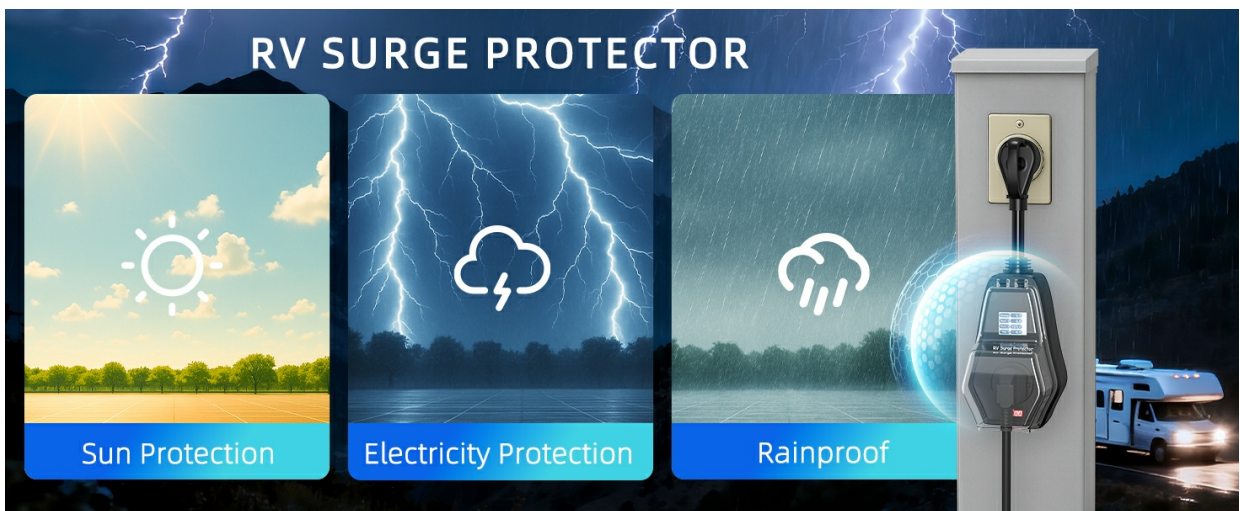


Figure 10: The surge protector offers protection against various environmental factors.

## 10. WARRANTY AND SUPPORT

For any questions, concerns, or to inquire about replacement surge modules (compatible part: DD232M-30A), please contact VIPTOO customer support. Refer to the product packaging or the official VIPTOO website for contact information.