

## GEARGO YC-02

# GEARGO RV Surge Protector 50 Amp with Circuit Analyzer

MODEL: YC-02

## INTRODUCTION

The GEARGO RV Surge Protector 50 Amp with Circuit Analyzer (Model YC-02) is designed to safeguard your recreational vehicle's electrical system from power surges and faulty wiring conditions. This manual provides essential information for the safe and effective use of your surge protector, including setup, operation, maintenance, and troubleshooting.



*Image: The GEARGO 50 Amp RV Surge Protector, featuring its main unit with a clear protective cover and a right-angle male plug.*

## IMPORTANT SAFETY INFORMATION

- Always ensure the surge protector is securely connected to a properly grounded power source.
- Do not immerse the unit in water. While designed to be waterproof (IP68 rated), proper connection and cover usage are essential.
- Inspect the unit and cables for any damage before each use. Do not use if damaged.
- Ensure the protective cover is properly closed to shield against environmental elements like rain, wind, and sand.
- The unit is made of V-1 flame-retardant materials for enhanced safety.

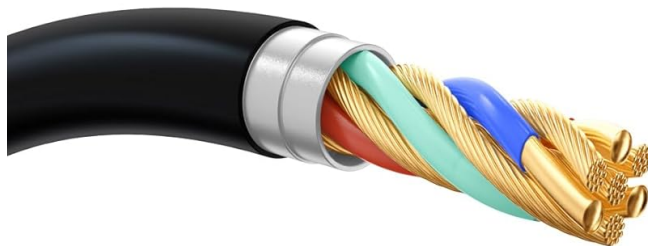
## PRODUCT FEATURES

- **9500 Joules Surge Protection:** Provides robust protection against power spikes.
- **Circuit Analyzer:** Diagnoses wiring faults at the power pedestal before connecting your RV.
- **Waterproof Design (IP68):** Offers protection against rain, wind, and sandstorms.
- **Flame-Retardant Materials:** Constructed with V-1 flame-retardant materials for safety.
- **Ergonomic Power Grip Handles:** Facilitates safe and easy plugging and unplugging.
- **Right-Angle Male Connector:** Minimizes strain and potential damage to the power source.
- **Non-Rusting Copper Plugs:** Ensures durability and reliable conductivity.

**NON-RUSTING  
COPPER PLUGS**



**UP TO 9500 JOULES RATING**



**FLAME:  
RETARDANT  
COPPER WIRE**

**50A**

**125V**

*Image: Close-up view highlighting the non-rusting copper plugs and flame-retardant copper wire, emphasizing the 9500 Joules rating.*

# How to choose 30A or 50A?



Image: Visual comparison illustrating the difference between 30 Amp (3 plugs/holes) and 50 Amp (4 plugs/holes) RV surge protectors.

## SETUP AND INITIAL USE

### Connecting the Surge Protector

1. **Step 1: Plug into AC Power.** Insert the male end of the GEARGO RV Surge Protector into the AC power pedestal outlet. Ensure a firm connection. *Do not connect your RV at this stage.*
2. **Step 2: Verify Wiring Condition.** Observe the LED indicators on the surge protector. The correct wiring condition is indicated when both green LEDs are illuminated. If other LEDs are lit or no LEDs are lit, refer to the "Circuit Analyzer Diagnostic Chart" below to identify the fault.
3. **Step 3: Connect RV.** Once the circuit analyzer indicates correct wiring (both green LEDs on), you can safely plug your RV's power cord into the female receptacle of the surge protector.

## RV SURGE PROTECTOR



Electricity Protection



Rainproof



Sun Protection

Image: Visual guide for the three-step connection process: plugging into the power source, checking LED indicators, and then connecting the RV.

## OPERATING THE CIRCUIT ANALYZER


The integrated circuit analyzer provides immediate feedback on the power pedestal's wiring status through a series of LED indicators. This diagnostic feature helps prevent damage to your RV's electrical system from common wiring faults.

### Circuit Analyzer Diagnostic Chart

Pattern	Indicates	Result	Next Step
●●●	Power on	✓	Plug in your RV
●●●	Open Neutral	✗	Contact RV Park Service Station management to solve the power issue or connect to another pedestal.
●●●	Open Ground	✗	
●●●	Missing L1 120V	✗	
●●●	Missing L2 120V	✗	
●●●	Reverse Polarity	✗	
●●●	L1 & Gnd Reversed	✗	Contact RV Park Service Station management to solve the power issue or connect to another pedestal.
●●●	L2 & Gnd Reversed	✗	
●●●	Open Circuit	✗	

**WARNING:** No surge protection when light is off.





CIRCUIT ANALYZER-LED INDICATORS			
PATTERN	INDICATES	RESULT	NEXT STEP
● ● ●	Power on	✓	Plug in your RV
● ● ●	Open Neutral	✗	Plug in your RV Contact RV Park Service Station management to solve the power issue or connect to a another pedestal
● ● ●	Open Ground		
● ● ●	Missing L1 120V		
● ● ●	Missing L2 120V		
● ● ●	Reverse Polarity		
● ● ●	L1&Gnd Reversed		
● ● ●	L2&Gnd Reversed		
○ ○ ○	Open Circuit		

● WARNING: No surge protection when light is off ●

Image: Detailed chart explaining the LED indicator patterns for the circuit analyzer, including correct wiring, open ground, open neutral, reverse polarity, and missing voltage.

CARE AND MAINTENANCE

- **Cleaning:** Wipe the unit with a damp cloth to remove dirt and debris. Do not use harsh chemicals or abrasive cleaners.
- **Storage:** Store the surge protector in a cool, dry place when not in use.
- **Weather Protection:** Always ensure the clear protective cover is securely closed over the receptacle when in use to maintain its IP68 waterproof rating and protect against environmental factors.
- **Inspection:** Periodically check the cable and plugs for any signs of wear, cuts, or corrosion. Replace the unit if any damage is observed.

### USER-FRIENDLY DESIGN



**STEP 1** Plug smart surge protector into AC power. Do not plug in your RV at this time. Verify green surge indicator LED(s) is on.



**STEP 2** Verify which LED's come on. The correct wiring condition occurs when both the green LED's are on. If this does not occur you may be experiencing one of the other 6 wiring conditions as noted in the diagrams.



**STEP 3** Plug in your RV power to the smart surge protector refer to step 2 above for surge protection wiring conditions.

Image: Depiction of the surge protector's ability to provide protection against electricity surges, rain, and sun exposure.

TROUBLESHOOTING

- Problem: No LEDs illuminate when plugged into the power pedestal.**  
**Solution:** This indicates an open circuit or no power at the pedestal. Check the circuit breaker at the pedestal. If the issue persists, try a different pedestal or contact park management.
- Problem: Red LEDs are illuminated, or only one green LED is on.**  
**Solution:** This indicates a wiring fault (e.g., open ground, reverse polarity). Refer to the "Circuit

Analyzer Diagnostic Chart" to identify the specific fault. Do not connect your RV to this power source. Contact park management or use an alternative power source.

**Problem: Surge protector feels warm during operation.**

**Solution:** A slight warmth is normal during operation. However, if the unit becomes excessively hot, disconnect it immediately and inspect for any issues. Ensure proper ventilation and that the unit is not overloaded.

**Problem: Protective cover does not close properly.**

**Solution:** Ensure no debris is obstructing the hinge or latch mechanism. Gently clean the area. If the cover is damaged, contact customer support.

## TECHNICAL SPECIFICATIONS

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**Model:** YC-02

**Amperage:** 50 Amps

**Surge Protection:** 9500 Joules

**Voltage:** 125V

**Product Dimensions:** 10 x 7 x 6 inches

**Item Weight:** 3 pounds

**Special Features:** Portable, Waterproof (IP68), Circuit Analyzer

**Manufacturer:** GEARGO

# PRODUCT SIZE

## Large Capacity for Any Shape of RV Electric Adapter



Image: Diagram illustrating the dimensions of the GEARGO RV Surge Protector, including the length of the unit and the size of the protective cover.

## WARRANTY INFORMATION

The GEARGO RV Surge Protector Model YC-02 comes with a **3-Year Warranty**. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims. For warranty service or inquiries, please contact GEARGO customer support.

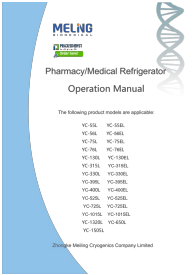



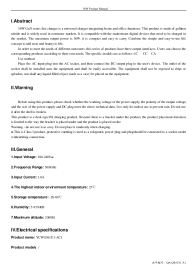

## CUSTOMER SUPPORT

For any questions, technical assistance, or warranty claims regarding your GEARGO RV Surge Protector, please visit the official GEARGO store on Amazon or contact their customer service directly. You can find contact information on the product packaging or the GEARGO brand store page.

**GEARGO Brand Store:** [Visit the GEARGO Store on Amazon](#)



Related Documents - YC-02

	<p><a href="#">MELING Biomedical Pharmacy/Medical Refrigerator Operation Manual</a></p> <p>This operation manual provides detailed instructions for the safe and effective use, installation, maintenance, and troubleshooting of MELING Biomedical Pharmacy/Medical Refrigerators. It covers various models and includes safety precautions, operating procedures, and technical specifications.</p>
	<p><a href="#">YC Controller Setup and Operation Manual</a></p> <p>This manual provides detailed instructions for setting up and operating YC series controllers. It covers technical specifications, installation procedures, Wi-Fi configuration, and integration with various IoT platforms such as MQTT, HomeAssistant, and SprutHub.</p>
	<p><a href="#">SHARP Microwave Oven User Manual</a></p> <p>User manual for SHARP microwave ovens, providing essential safety instructions, installation guides, operational procedures, and troubleshooting tips for models YC-PS204AE, YC-PS234AE, YC-PS254AE, YC-PG204AE, YC-PG234AE, YC-PG254AE, and YC-PG284AE.</p>
	<p><a href="#">Sharp Microwave Oven User Manual: YC-PS204AE, YC-PG204AE Series</a></p> <p>Comprehensive user manual for Sharp microwave ovens, covering safety, installation, operation, cleaning, and troubleshooting for models YC-PS204AE, YC-PS234AE, YC-PS254AE, YC-PG204AE, YC-PG234AE, YC-PG254AE, YC-PG284AE.</p>
	<p><a href="#">36W GaN Fast Charger Product Manual   Shenzhen Yigood Technology</a></p> <p>Official product manual for the 36W GaN series fast charger by Shenzhen Yigood Technology. Includes specifications, usage instructions, warnings, and FCC compliance.</p>
	<p><a href="#">Sharp Microwave Oven User Manual: Safety, Operation, and Maintenance Guide</a></p> <p>Comprehensive user manual for Sharp microwave ovens, covering essential safety precautions, installation guidelines, operating instructions, cleaning tips, and troubleshooting for models like YC-PS204AE, YC-PG234AE, and others.</p>

