PRPYVPEY AC 12V to DC 12V 8A

PRPYVPEY Waterproof 12V AC to 12V DC Voltage Power Converter (8A Model)

Instruction Manual

1. Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your PRPYVPEY Waterproof 12V AC to 12V DC Voltage Power Converter. This device is designed to efficiently convert alternating current (AC) from a 12V source to a stable 12V direct current (DC) output, suitable for various applications such as car monitoring systems and camera power supplies. Please read this manual thoroughly before use to ensure proper function and safety.

2. Safety Information

- Ensure all connections are secure and properly insulated to prevent short circuits.
- Do not exceed the maximum input voltage or output current ratings specified for the converter.
- Disconnect power before making any connections or disconnections.
- This device is waterproof; however, avoid submerging it in water for extended periods or exposing it to extreme conditions beyond its rating.
- Keep out of reach of children.
- If the device shows signs of damage or malfunction, discontinue use immediately.

3. Product Overview

The PRPYVPEY Waterproof AC to DC Voltage Power Converter is a compact and robust module designed for reliable power conversion. It features clearly labeled input and output terminals for straightforward installation.

An image showing the PRPYVPEY Waterproof AC to DC Voltage Power Converter. The label on the converter indicates 'Fulree AD121205L AD/DC-DC CONVERTER'. Input specifications are 'IN/ AC12-26V DC15-40V R/ R/ ' (Red wires for input). Output specifications are 'OUT/ DC12V 5A MAX B/ Y/ ' (Black and Yellow wires for output). The bottom of the image also states 'AC12V to DC12V 5A'. Please note that while the image label shows '5A MAX', this specific product variant is rated for 8A output as per the product description.

Key Features:

- Waterproof design for outdoor and harsh environments.
- Wide input voltage range (AC 12-26V, DC 15-40V).
- Stable 12V DC output.
- Overload and short-circuit protection.

Input/Output Terminals:

- **Input (IN):** Red wires (R/) for AC 12-26V or DC 15-40V. Connect your power source here.
- **Output (OUT):** Black wire (B/) for negative (-), Yellow wire (Y/) for positive (+). Provides DC 12V output. This specific model supports up to 8A.

4. Specifications

Input Voltage	AC 12-26V / DC 15-40V
Output Voltage	DC 12V
Output Current	8A (Max)
Power Output	96W (Max)
Efficiency	Typically >90%
Operating Temperature	Refer to product packaging for specific range
Dimensions	Approximately 1.18 x 0.79 x 0.39 inches
Weight	Approximately 1.76 ounces (50 Grams)
Manufacturer	PRPYVPEY

5. Setup and Installation

1. **Prepare Wiring:** Ensure all wires are of appropriate gauge for the expected current and are stripped to the correct length for secure connections.
2. **Connect Input:** Connect the red input wires of the converter to your 12V AC or 15-40V DC power source. Ensure correct polarity if using a DC input (though the converter is designed to handle AC input, for DC input, typically red is positive).
3. **Connect Output:** Connect the yellow output wire (+) to the positive terminal of your 12V DC device and the black output wire (-) to the negative terminal of your 12V DC device.
4. **Secure Connections:** Double-check all connections for tightness and proper insulation. Use heat shrink tubing or electrical tape if necessary to protect exposed wires.
5. **Mount Converter:** Mount the converter in a suitable location, away from excessive heat sources and moving parts. Its waterproof design allows for flexible placement.
6. **Apply Power:** Once all connections are secure, apply power to the input of the converter.

Important: *Always verify input voltage and output load requirements before connecting to prevent damage to the converter or connected devices.*

6. Operating Instructions

The PRPYVPEY Voltage Power Converter operates automatically once power is supplied to its input. It will convert the input AC or DC voltage to a stable 12V DC output.

- Ensure the input voltage is within the specified range (AC 12-26V or DC 15-40V).
- The converter will provide a regulated 12V DC output to your connected device.
- Monitor the performance of your connected device to ensure it is receiving stable power.
- Avoid drawing more than 8A from the output to prevent overloading the converter.

7. Maintenance

The PRPYVPEY Waterproof Voltage Power Converter is designed for minimal maintenance. Follow these guidelines to ensure its longevity:

- Periodically inspect all wiring connections for corrosion or looseness.
- Keep the converter clean and free from excessive dust or debris. A damp cloth can be used for cleaning, ensuring no moisture enters the wiring connections.
- Avoid exposing the converter to extreme temperatures outside its operational range.
- Do not attempt to open or modify the converter, as this will void any warranty and may cause damage or injury.

8. Troubleshooting

Problem	Possible Cause	Solution
No output voltage	No input power; incorrect wiring; overloaded output; faulty converter	Check input power source; verify all wiring connections; reduce load on output; if problem persists, converter may be faulty.
Output voltage is unstable or incorrect	Input voltage too low/high; loose connections; faulty converter	Ensure input voltage is within specified range; check all connections; if problem persists, converter may be faulty.
Converter is hot	Normal operation under load; excessive load; poor ventilation	Some heat is normal. Ensure load does not exceed 8A; ensure adequate airflow around the converter.
Connected device not working	Converter issue; device issue; incorrect wiring	Test converter output with a multimeter; check device's own power requirements and functionality; verify all wiring.

9. Warranty and Support

For warranty information and technical support, please refer to the documentation provided with your purchase or contact the manufacturer directly through their official channels. Keep your purchase receipt as proof of purchase.