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Dpofirs Dpofirsnfvdy19o568322

DC 24V to DC 19V Converter User Manual

Brand: Dpofirs | **Model:** Dpofirsnfvdy19o568322

1. Introduction

This manual provides essential information for the safe and effective use of your Dpofirs DC 24V to DC 19V Converter. Please read this manual thoroughly before installation and operation, and keep it for future reference.

Product Overview

The Dpofirs DC 24V to DC 19V Converter is a high-performance, waterproof power conversion device designed for a wide range of applications. It efficiently converts a 24V DC input to a stable 19V DC output, making it ideal for vehicles, security systems, hospital equipment, and telecommunications.

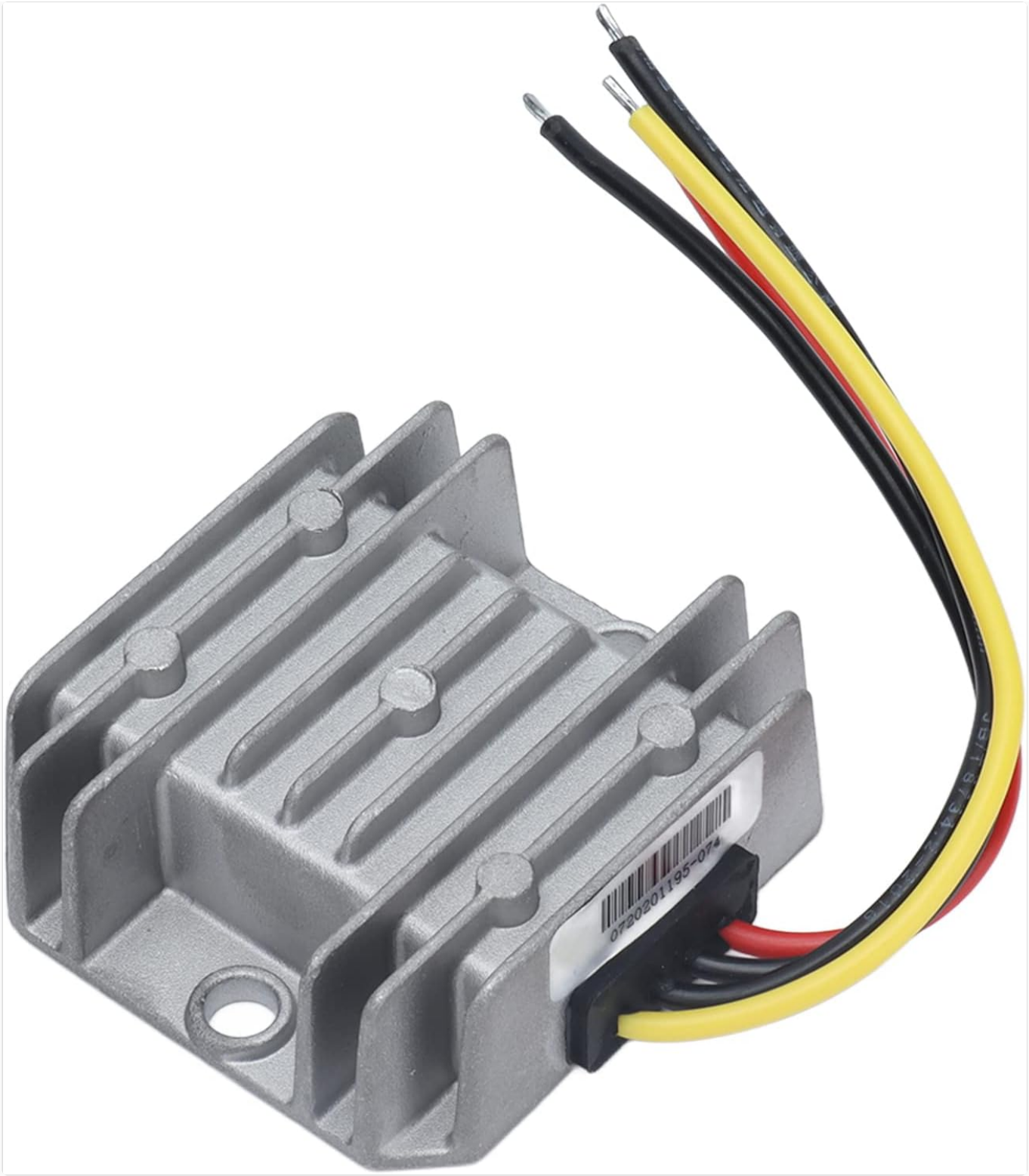


Figure 1: Front view of the DC 24V to 19V Converter, showcasing its compact design and integrated wiring.

Key Features

- **Wide Application:** Suitable for vehicles, security systems, hospital equipment, and electrical communications due to its waterproof alloy housing.
- **Robust Protection:** Features built-in overvoltage, undervoltage, overload, overheating, and short circuit protection for reliable operation.
- **Compact Design:** Slim and small form factor allows for simple and flexible installation.
- **Durable Construction:** Epoxy resin potting material provides excellent shock resistance and tensile strength, achieving an IP67 waterproof rating.
- **High Efficiency:** Boasts a maximum conversion efficiency of 96%, ensuring minimal power loss.

2. Safety Information

WARNING: Failure to follow these safety instructions could result in fire, electric shock, or other injury or damage.

- **Correct Polarity:** Ensure correct positive and negative pole connections during installation. Reversing the polarity will damage the converter.
- **Fuse Protection:** It is highly recommended to add an appropriate fuse to the input circuit during use to protect against overcurrent.
- **Ventilation:** Although the device is waterproof, ensure adequate ventilation around the converter to prevent excessive heat buildup, especially during prolonged high-load operation.
- **Professional Installation:** If you are unsure about the installation process, seek assistance from a qualified professional.
- **Operating Temperature:** Do not operate the device outside its specified operating temperature range (-20°C to 80°C).

3. Product Components

The package includes the following items:

- 1 x Dpofirs DC 24V to DC 19V Converter



Figure 2: Close-up view of the converter's product label, showing identification details.

4. Setup and Installation

Follow these steps for proper installation of the DC converter:

1. **Identify Wires:** The converter comes with pre-attached wires. Typically, red is positive input, black is negative input, yellow is positive output, and black is negative output. Refer to the product label for specific wiring diagrams if available.



Figure 3: Detailed view of the converter's input and output wires, showing their color coding.

2. **Input Connection (24V DC):** Connect the input wires to your 24V DC power source.
    - Connect the **positive input wire** (e.g., Red) from the converter to the positive terminal of your 24V DC power source.
    - Connect the **negative input wire** (e.g., Black) from the converter to the negative terminal of your 24V DC power source.
    - **Important:** Double-check polarity before making connections. Reversing polarity will damage the unit.
3. **Output Connection (19V DC):** Connect the output wires to your 19V DC device.
    - Connect the **positive output wire** (e.g., Yellow) from the converter to the positive input of your 19V DC device.
    - Connect the **negative output wire** (e.g., Black) from the converter to the negative input of your 19V DC device.

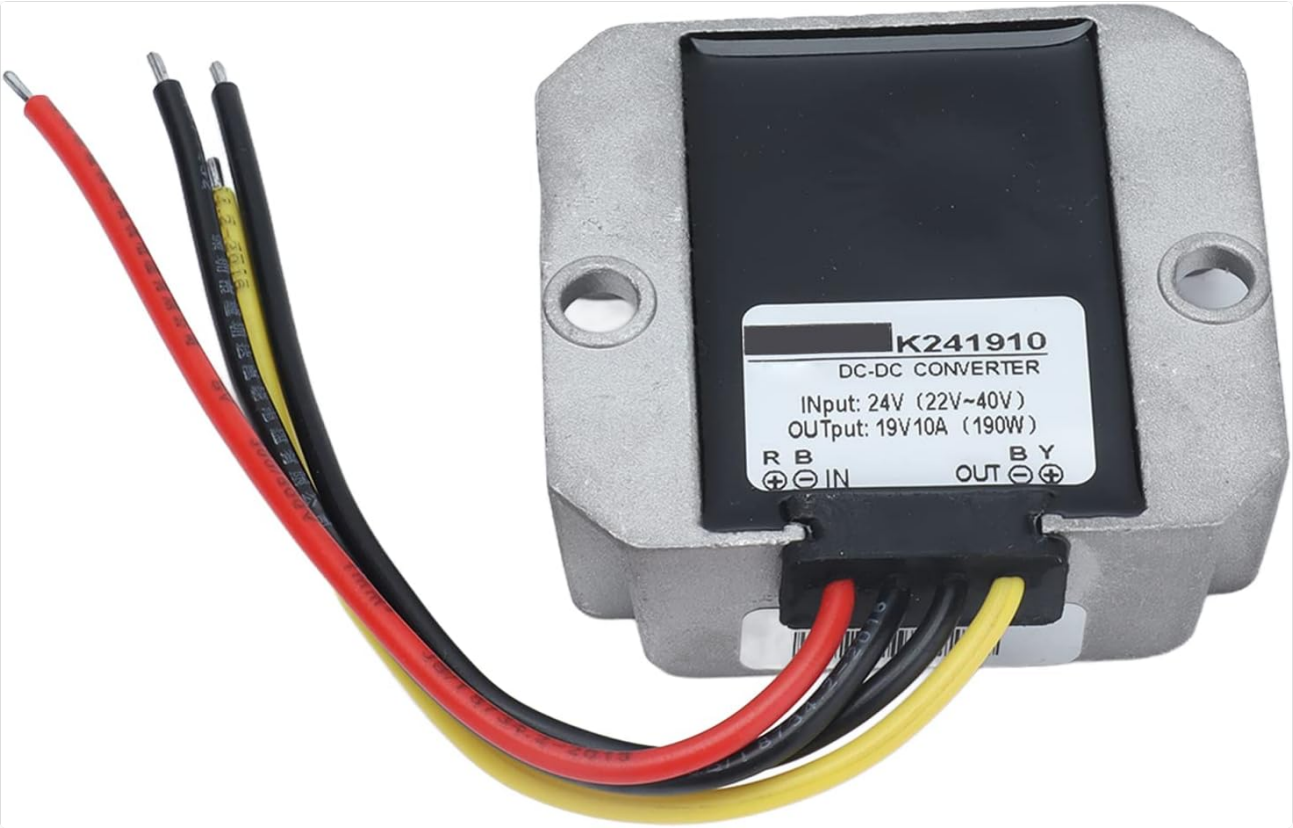


Figure 4: Top view of the converter, clearly indicating input (IN) and output (OUT) terminals for wiring.

4. **Mounting:** Secure the converter in a suitable location using its mounting holes. Ensure it is in a stable position and away from excessive heat sources.
5. **Fuse Installation (Recommended):** Install an appropriate fuse (not included) on the positive input line of the 24V DC power source to protect the converter and connected devices from overcurrent.

5. Operating Instructions

Once properly installed, the Dpofirs DC converter operates automatically. It will convert the 24V DC input to a stable 19V DC output for your connected devices.

- **Power On:** Apply 24V DC power to the input terminals. The converter will immediately begin regulating the voltage to 19V DC.
- **Monitoring:** While the converter is designed for reliable operation, it is good practice to periodically check the connections and the converter's temperature during initial use or under heavy load.
- **Protection Features:** The built-in protection mechanisms (overvoltage, undervoltage, overload, overheating, short circuit) will automatically activate to protect the converter and your devices in case of abnormal conditions. If a protection feature is triggered, disconnect power, identify and resolve the issue, then reconnect power.

6. Maintenance

The Dpofirs DC converter is designed for low maintenance. However, following these guidelines can help ensure its longevity:

- **Regular Inspection:** Periodically inspect the wiring for any signs of wear, corrosion, or loose connections.
- **Cleaning:** Keep the converter clean and free from dust and debris. Use a dry, soft cloth for cleaning. Do not use liquid cleaners.
- **Environmental Conditions:** Ensure the converter is not exposed to conditions beyond its IP67 rating (e.g.,

prolonged submersion, high-pressure water jets) or extreme temperatures outside its operating range.

- **No User-Serviceable Parts:** Do not attempt to open or repair the converter. There are no user-serviceable parts inside. Opening the unit will void the warranty.

7. Troubleshooting

If you encounter issues with your DC converter, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No output voltage.	No input power. Incorrect wiring (reversed polarity). Blown fuse on input. Overload protection activated. Short circuit on output.	Verify 24V DC input power. Check all wiring connections for correct polarity. Inspect and replace fuse if necessary. Reduce load on the output. Check output for short circuits.
Output voltage is unstable or incorrect.	Input voltage is outside the specified range (22V-40V). Overheating. Faulty connections.	Ensure input voltage is within 22V-40V. Ensure adequate ventilation; reduce load if necessary. Check and secure all wiring connections.
Converter feels excessively hot.	Overload. Insufficient ventilation. Operating in high ambient temperature.	Reduce the load on the converter. Ensure proper airflow around the unit. Relocate to a cooler environment if possible.

If the problem persists after trying these solutions, please contact customer support.

8. Specifications

Detailed technical specifications for the Dpofirs DC 24V to DC 19V Converter:

Parameter	Value
Item Type	DC Converter
Shell Material	Aluminum
Potting Material	Epoxy Resin
Input Voltage	24V DC (Range: 22V - 40V DC)
Output Voltage	19V DC ±0.25V
Output Current	10A
Output Power	190W

Parameter	Value
Operating Temperature	-20℃ to 80℃
Conversion Efficiency	96% (Max)
Waterproof Rating	IP67
Dimensions (Approx.)	Length: 74mm / 2.91in, Width: 74mm / 2.91in, Height: 32mm / 1.26in
Mounting Hole Spacing (Approx.)	65mm / 2.56in
Mounting Hole Size (Approx.)	5mm / 0.2in

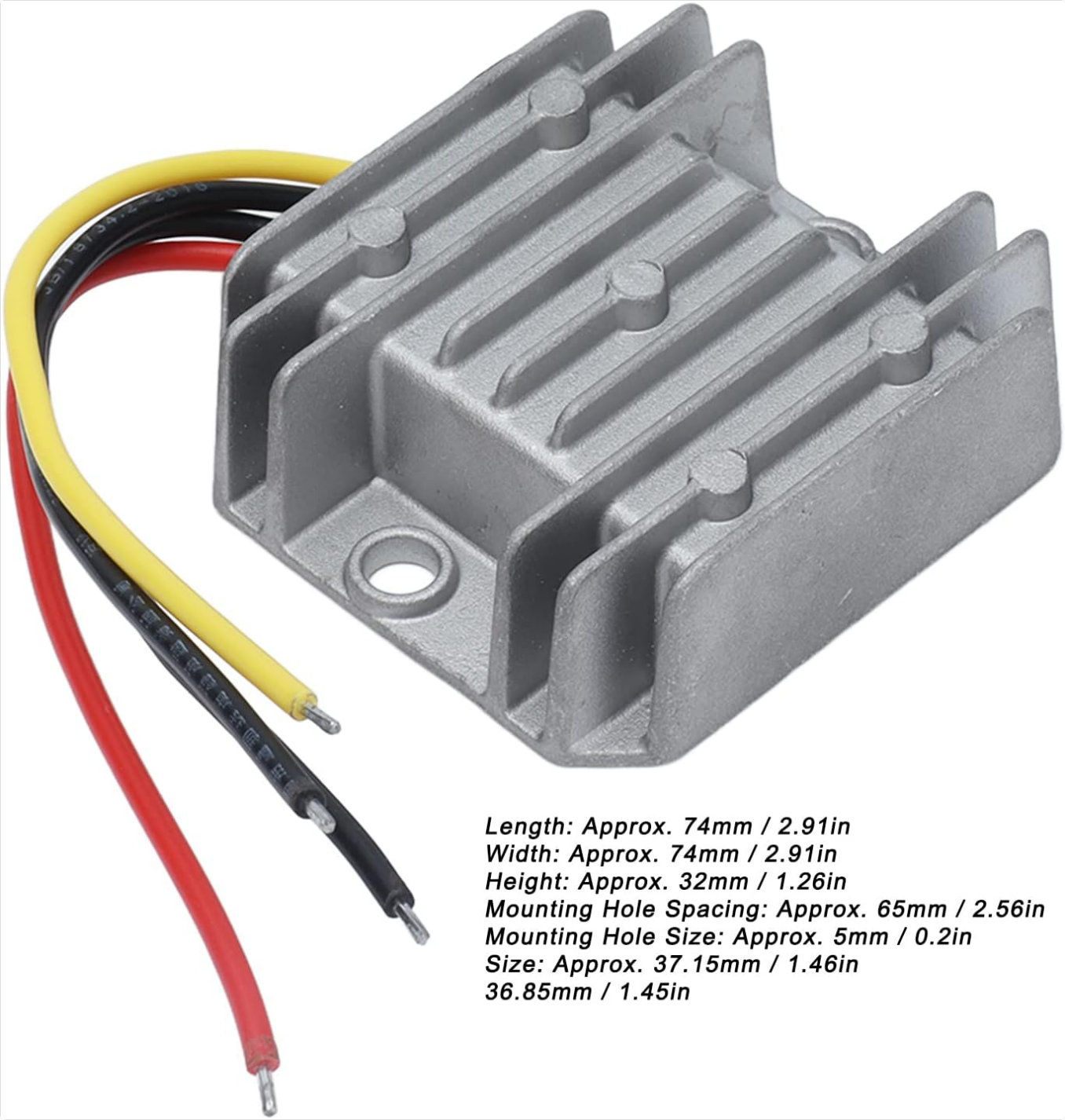


Figure 5: Diagram showing the approximate dimensions of the DC converter for installation planning.

9. Warranty and Support

For warranty information and customer support, please refer to the seller's policy on the platform where the product was purchased or contact Dpofirs directly through their official channels. Keep your purchase receipt as proof of purchase. For further assistance, you may visit the Dpofirs store on Amazon:Dpofirs Amazon Store

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