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Fafeicy Fafeicy4wy2pk7zqg

DCDC Converter Module User Manual

Model: Fafeicy4wy2pk7zqg | Brand: Fafeicy

1. Introduction

This manual provides comprehensive instructions for the Fafeicy DCDC Converter Module, a non-isolated step-down power supply designed for stable and efficient voltage conversion. It is ideal for applications requiring a reliable 5VDC output, such as phone charging and travel adapters.
Key features of this module include:

- **Stable Output:** High power and stable output, efficiently converting 6-35VDC to 5VDC.
- **Long Service Life:** Engineered for durability and reliability.
- **USB Output:** Equipped with USB output ports, capable of charging two phones simultaneously.
- **High Conversion Efficiency:** Utilizes quality components to achieve a conversion efficiency of up to 93%.
- **Easy Wiring:** Features a terminal block for straightforward and convenient wiring.

2. Technical Specifications

The following table details the technical specifications of the DCDC Converter Module:

Feature	Specification
Module Type	Non-isolated step-down module
Input Voltage	6-35VDC
Output Voltage	5VDC
Output Current	3A USB (within 2A for long-term use)
Switch Frequency	180KHZ
Conversion Efficiency	93% (typical)

Feature	Specification
Over Temperature Protection	Yes
Reverse Input Protection	Yes
Over Current Protection	Yes
Operating Temperature	-40~+85℃
Output Indicator Light	Yes
Wiring Mode	Terminal block
Weight	18g / 0.6oz
Package Dimensions	2.76 x 1.18 x 1.18 inches
Model Number	Fafeicy4wy2pk7zqg
Manufacturer	Fafeicy
Country of Origin	China

3. Setup and Wiring

The DCDC Converter Module is designed for easy integration using its terminal block for wiring. Follow these steps for proper setup:

1. **Identify Terminals:** Locate the input positive and input negative terminals on the blue terminal block. Refer to the diagram below for visual identification.
2. **Connect Input Power:** Connect your DC power source (6-35VDC) to the terminal block. Ensure the positive wire from your power source is connected to the "input positive" terminal and the negative wire to the "input negative" terminal.
3. **Secure Connections:** Tighten the screws on the terminal block to ensure a secure and stable electrical connection.
4. **Verify Output:** Once input power is supplied, the output indicator light on the module should illuminate, indicating proper operation.
5. **Connect USB Devices:** You can now connect your USB-powered devices to the dual USB output ports.

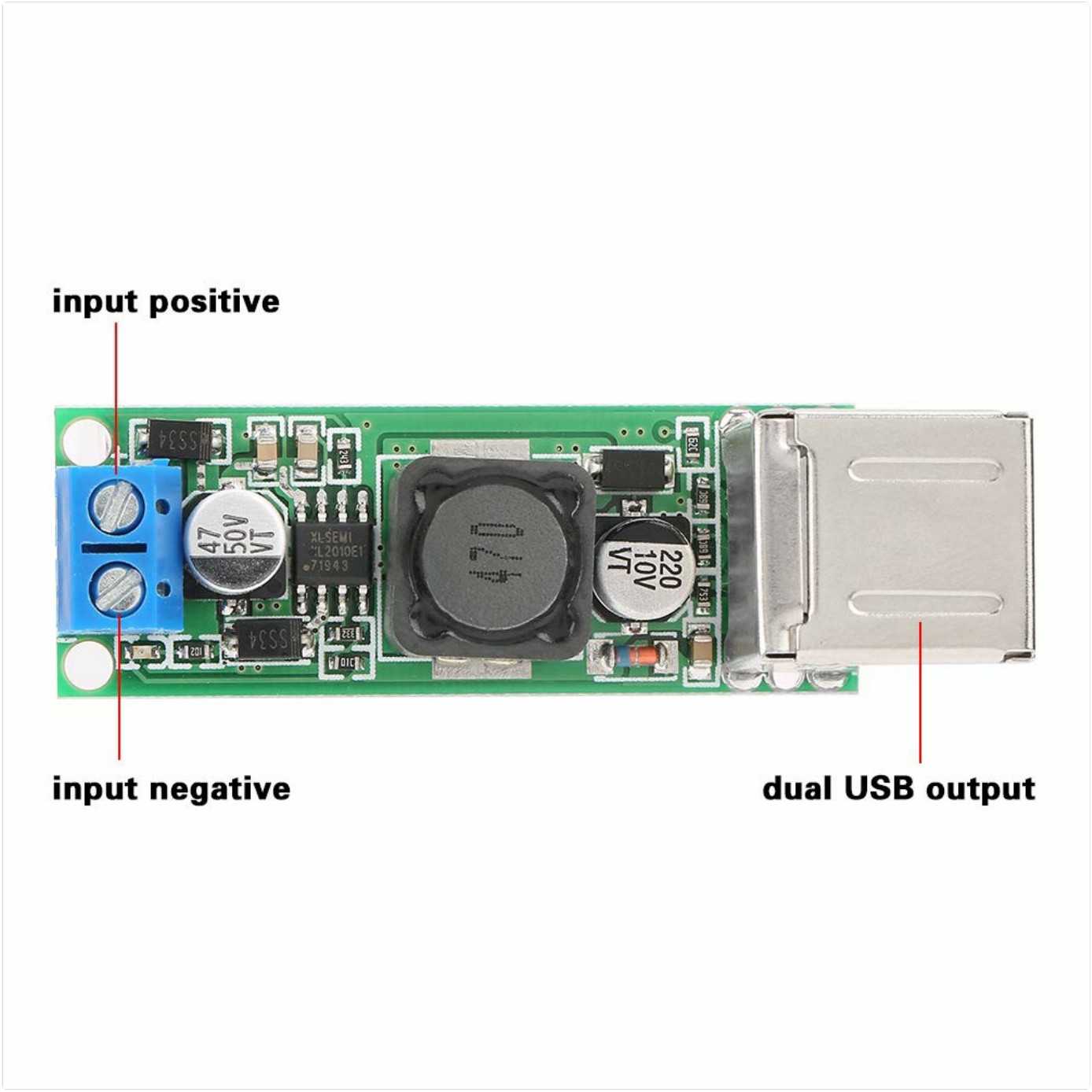


Figure 3.1: Top-down view of the module, showing the input positive and negative terminals on the blue block, and the dual USB output port.

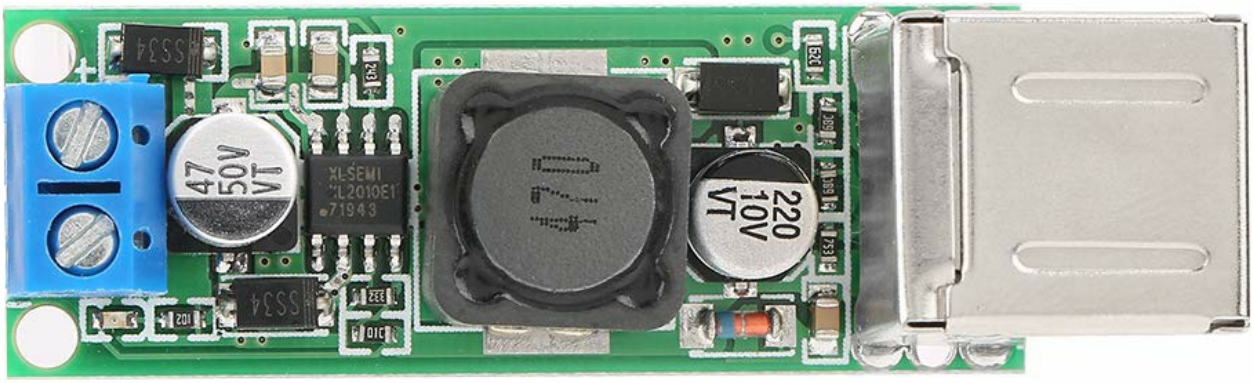


Figure 3.2: Overhead view of the DCDC converter module, highlighting its compact design and component layout.

4. Operating Instructions

The Fafeicy DCDC Converter Module operates automatically once properly wired and powered. Here are guidelines for optimal use:

- **Power On:** Connect a DC power source within the 6-35VDC range to the input terminals. The module will automatically step down the voltage to a stable 5VDC.
- **USB Charging:** Plug your USB devices into the dual USB output ports. The module can deliver up to 3A total output current, with a recommended continuous current of 2A for prolonged use.
- **Indicator Light:** The output indicator light will be illuminated when the module is receiving input power and providing 5VDC output.
- **Protection Features:** The module includes built-in over-temperature, reverse input, and over-current protection to ensure safe operation and protect connected devices.



Figure 4.1: Detailed view of the dual USB output ports, designed for convenient charging of multiple devices.



Figure 4.2: Angled perspective of the DCDC converter module, illustrating its compact form factor and key components.

5. Maintenance

The Fafeicy DCDC Converter Module is designed for long-term reliability and requires minimal maintenance. To ensure optimal performance and longevity:

- **Keep Clean:** Periodically clean the module with a soft, dry cloth to remove dust and debris. Do not use liquid cleaners.
- **Ensure Ventilation:** While the module is compact, ensure it is operated in an environment with adequate airflow to prevent excessive heat buildup, especially during prolonged high-current operation.
- **Inspect Connections:** Occasionally check the terminal block connections to ensure they remain tight and secure. Loose connections can lead to intermittent operation or damage.
- **Avoid Extreme Conditions:** Do not expose the module to temperatures outside its specified operating range (-40~+85℃) or to excessive moisture.

6. Troubleshooting

If you encounter issues with your DCDC Converter Module, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
No output / Indicator light off	No input power, incorrect wiring, or input voltage out of range.	◦ Verify input power source is connected and active. ◦ Check wiring for correct polarity (positive to positive, negative to negative). ◦ Ensure input voltage is within 6-35VDC.
Low or unstable output voltage	Input power too low, excessive load, or loose connections.	◦ Confirm input voltage is stable and sufficient. ◦ Reduce the load on the USB ports; ensure total current draw does not exceed 3A (2A for long-term). ◦ Check terminal block connections for tightness.
Module feels hot	Operating under heavy load or insufficient ventilation.	◦ Ensure adequate airflow around the module. ◦ Reduce the load if operating continuously at maximum current. ◦ The module has over-temperature protection, but sustained high temperatures can reduce lifespan.
USB devices not charging	Faulty USB cable, device drawing too much current, or module not powered.	◦ Try a different USB cable and device. ◦ Check if the total current draw from both USB ports exceeds 3A. ◦ Verify the module's indicator light is on.

7. Warranty and Support

Fafeicy products are manufactured to high standards. For information regarding warranty coverage and support, please refer to the purchase platform or contact your retailer. Typically, products are eligible for a refund or replacement within 30 days of purchase, subject to the retailer's return policy.
For further assistance or technical inquiries, please visit the official Fafeicy store or contact customer support through the platform where the product was purchased.

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