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> [Walfront Multi-Output DC-DC Voltage Converter Power Supply Module User Manual](#)

Walfront Walfronta2t8gi3e1c

Walfront Multi-Output DC-DC Voltage Converter Power Supply Module User Manual

Model: Walfronta2t8gi3e1c

INTRODUCTION

This manual provides detailed instructions for the Walfront Multi-Output DC-DC Voltage Converter Power Supply Module. This module is designed to convert a DC input voltage into multiple stable DC output voltages, specifically 3.3V, 5V, and 12V. It is suitable for various electronic projects requiring different voltage levels from a single power source.

PRODUCT FEATURES

- **Versatile Input:** Accepts a single DC input voltage ranging from 6V to 12V.
- **Triple Output:** Provides stable output voltages of 3.3V, 5.0V, and 12V.
- **Compact Design:** Features a double-sided board design for practical and professional integration into projects.
- **Easy Mounting:** Includes two pin fixing holes for direct mounting on extended breadboard experiments.
- **Power Indicator:** Equipped with a red LED power indicator for quick status checks.
- **Simple Connectivity:** Multi-output input and output pins ensure easy and flexible connections.

SPECIFICATIONS

Input Voltage	DC 6V - 12V
Output Voltage	3.3V ($\pm 0.05V$), 5V ($\pm 0.05V$), 12V (direct pass-through from 12V input)
Maximum Output Current	800mA (total load current must not exceed 800mA)
Dimensions (L x W x H)	32mm x 32mm x 13mm (1.26in x 1.26in x 0.51in)
Material	Metal, Plastic

Power Source Type	Wired Electric
Batteries Required/Included	No

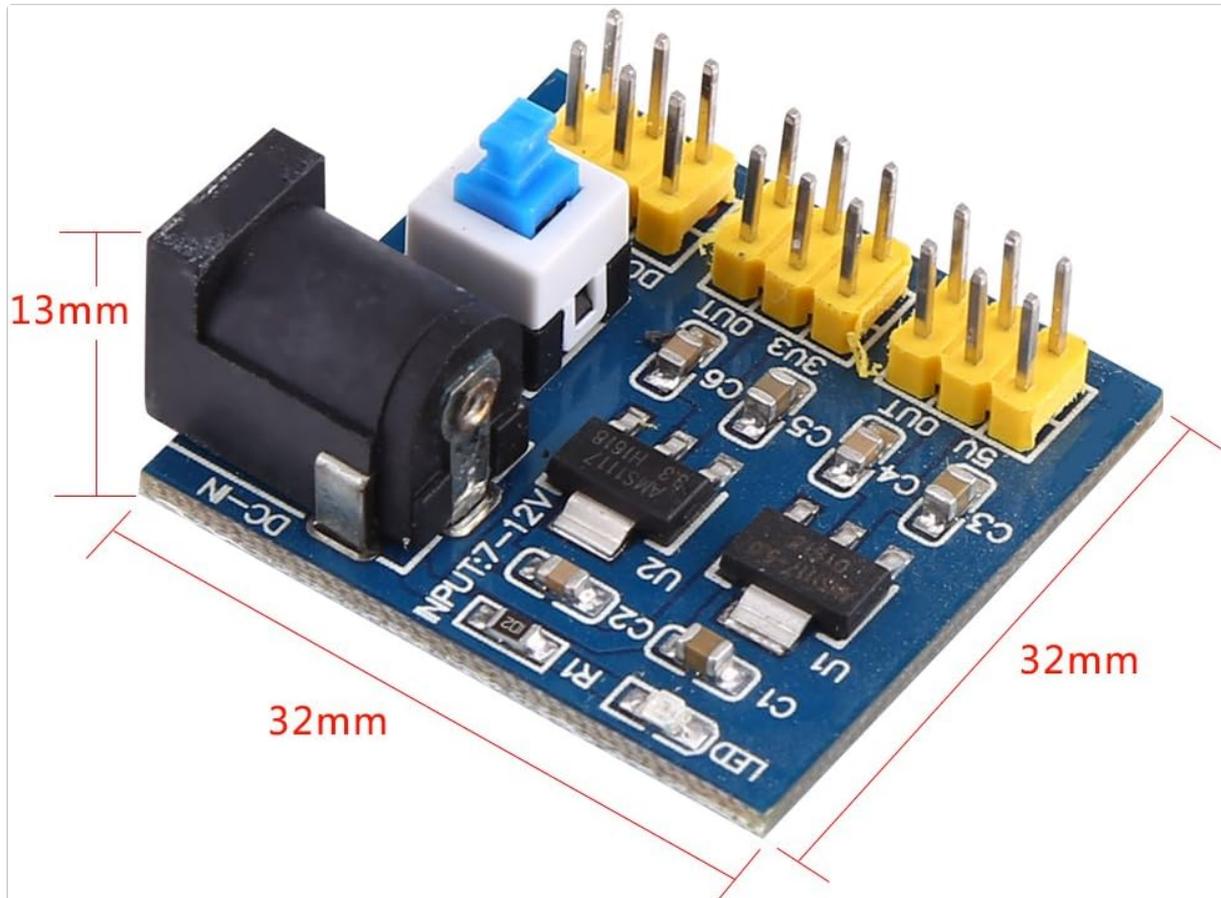


Image: Angled view of the Walfont DC-DC converter module, illustrating its compact dimensions of 32mm x 32mm x 13mm.

SETUP

Before connecting the module, ensure all power sources are disconnected. Observe proper polarity when making connections.

- 1. Input Power Connection:** Connect your DC power source (6V to 12V) to the DC-IN jack or the DC-IN/OUT pins. Ensure the input voltage is at least 1V higher than your desired output voltage for stable regulation.
- 2. Output Connections:**
 - For 3.3V output, connect your device to the "3V3 OUT" pins and corresponding "GND" pins.
 - For 5V output, connect your device to the "5V OUT" pins and corresponding "GND" pins.
 - For 12V output, connect your device to the "12V OUT" pins and corresponding "GND" pins.
Note that the 12V output is a direct pass-through from the input when the input is 12V.
- 3. Mounting:** The module can be mounted using the two fixing holes provided, suitable for breadboard or custom enclosure integration.

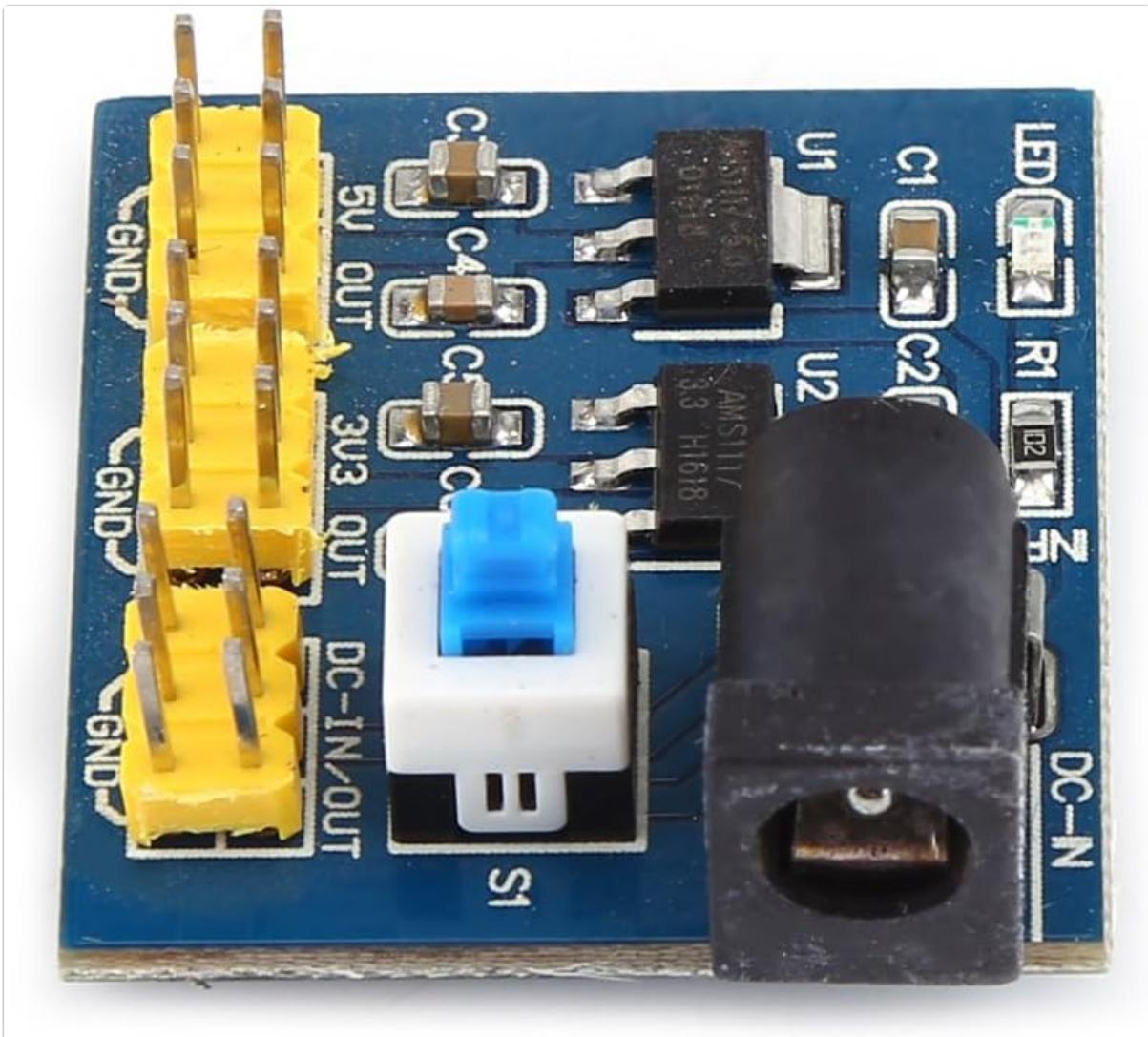


Image: Top-down view of the Walfront DC-DC converter module, highlighting the input and output pins, DC jack, and power switch for clear identification during setup.

OPERATING INSTRUCTIONS

Once all connections are securely made, follow these steps to operate the module:

1. **Power On:** Connect your DC power source to the module.
2. **Activate Module:** Flip the blue switch (S1) on the module to the "ON" position.
3. **Verify Power:** The red LED indicator light will illuminate, confirming that the module is receiving power and is active.
4. **Check Output:** Use a multimeter to verify the output voltages at the respective 3.3V, 5V, and 12V output pins before connecting sensitive components.
5. **Power Off:** To turn off the module, flip the blue switch (S1) to the "OFF" position and then disconnect the input power source.

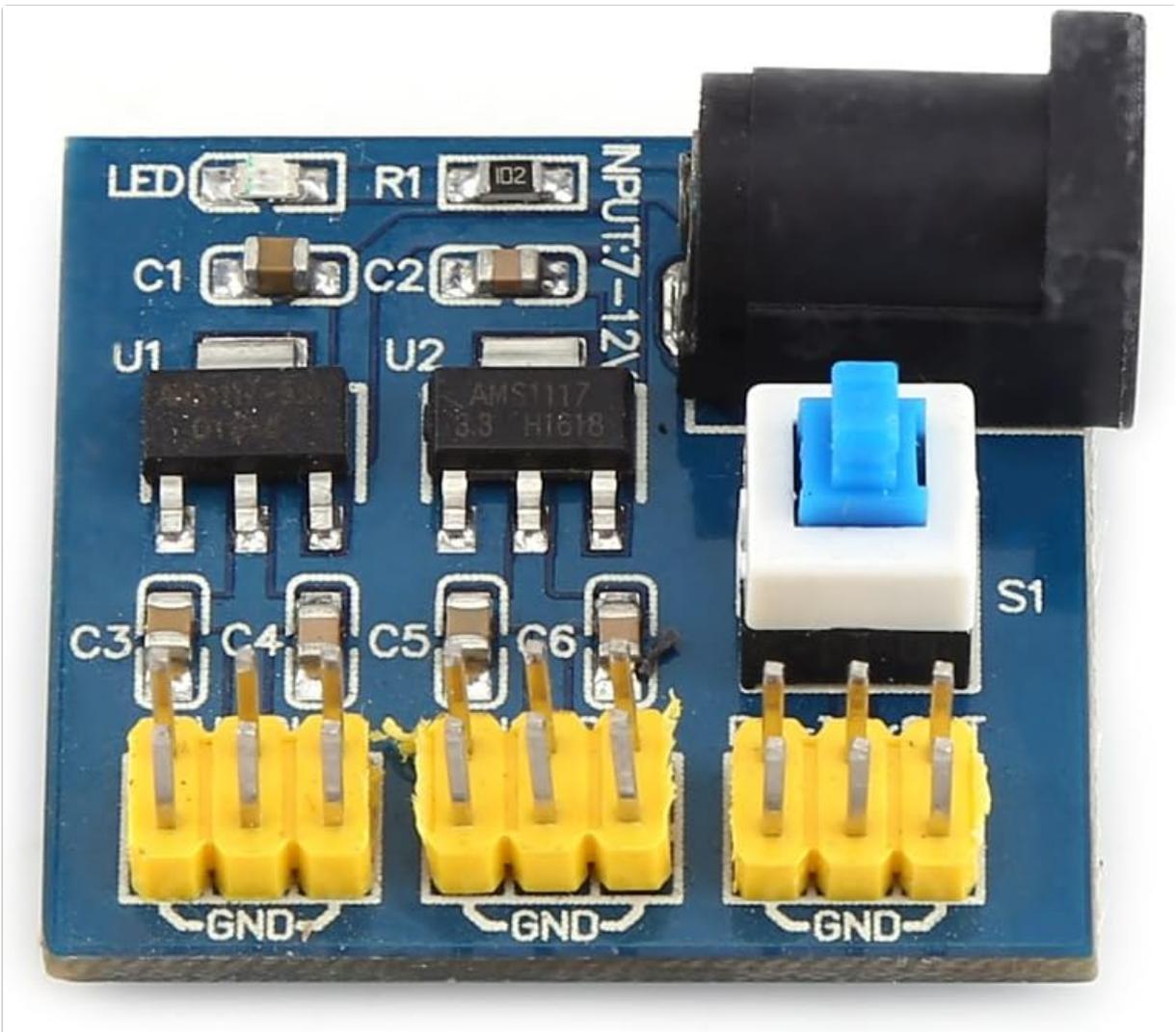


Image: An angled view of the module, illustrating the DC input jack and the blue power switch (S1) for easy identification during operation.

MAINTENANCE

The Walfront DC-DC Voltage Converter Module requires minimal maintenance. Follow these guidelines to ensure its longevity and optimal performance:

- **Keep Clean:** Regularly clean the module with a dry, soft cloth to remove dust and debris. Avoid using liquids or abrasive cleaners.
- **Storage:** Store the module in a dry, cool environment, away from direct sunlight and extreme temperatures.
- **Handle with Care:** Avoid dropping or subjecting the module to physical shock, as this can damage internal components.
- **Inspect Connections:** Periodically check all connections for looseness or corrosion. Ensure pins are straight and not bent.

TROUBLESHOOTING

If you encounter issues with your Walfront DC-DC Voltage Converter Module, refer to the following troubleshooting steps:

Problem	Possible Cause	Solution
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No power indicator light (LED off)	<ul style="list-style-type: none"> ◦ No input power. ◦ Power switch (S1) is off. ◦ Faulty power source or cable. 	<ul style="list-style-type: none"> ◦ Ensure DC power source is connected and active. ◦ Flip switch S1 to the ON position. ◦ Test power source and cable with another device or multimeter.
Incorrect output voltage	<ul style="list-style-type: none"> ◦ Input voltage is too low. ◦ Overload on output. ◦ Faulty module. 	<ul style="list-style-type: none"> ◦ Ensure input voltage is at least 1V higher than the desired output. ◦ Reduce the load connected to the output. Total current must not exceed 800mA. ◦ Contact support if the issue persists after checking input and load.
Module gets excessively hot	<ul style="list-style-type: none"> ◦ Overload on output. ◦ Insufficient ventilation. 	<ul style="list-style-type: none"> ◦ Reduce the load connected to the output. ◦ Ensure the module has adequate airflow and is not enclosed in a tight space.

PACKAGE CONTENTS

The package includes:

- 1 x Walfront Multi-Output DC-DC Voltage Converter Power Supply Module

SAFETY INFORMATION

Please read and understand the following safety precautions before using the module:

- This module is intended for use by individuals with knowledge of electronics. Improper use can lead to damage to the module or connected devices.
- Do not exceed the maximum input voltage of 12V DC or the maximum output current of 800mA.
- Ensure correct polarity when connecting power. Reverse polarity can cause irreversible damage.
- Avoid short circuits on the output pins.
- Keep the module away from water, moisture, and conductive materials.
- If the module shows signs of damage or malfunction, discontinue use immediately.

WARRANTY AND SUPPORT

Walfront products are designed for reliability and performance. For specific warranty details or technical support, please refer to the retailer's policy or contact Walfront customer service directly. Keep your purchase receipt for warranty claims.

