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Walfront WALFRONTwhz0uyk2td

Walfront Constant Current Electronic Load Module User Manual

Model: WALFRONTwhz0uyk2td

1. INTRODUCTION

This manual provides instructions for the Walfront Constant Current Electronic Load Module. This device is designed for applications such as battery capacity testing and power adapter aging. It features a constant current mode to accurately test the performance and capacity of various power sources and batteries.

2. FEATURES

- **Rotary Encoder Settings:** The module incorporates a rotary encoder for intuitive and versatile function adjustments.
- **Audible Buzzer Alerts:** Stable buzzer sound prompts provide clear operational feedback, enhancing user experience.
- **Automatic Memory Function:** All parameter settings are automatically saved, making the module highly suitable for integration into power adapter automatic aging cabinets.
- **Robust Design:** Equipped with an original IR power tube, dual NMB ball bearing high-speed fan with temperature control, and an industrial large-tooth radiator to ensure long-term stability and reliable operation.
- **Digital Display:** Features a classic digital tube display that is intuitive, durable, and more resistant to high temperatures compared to traditional LCDs.

3. SPECIFICATIONS

| Specification | Value |
|---------------|--------------------|
| Model Number | WALFRONTwhz0uyk2td |

| Specification | Value |
|----------------------|----------------|
| Manufacturer | WALFRONT |
| Country of Origin | China |
| Parcel Dimensions | 15 x 8 x 7 cm |
| Item Weight | 183 g |
| First Available Date | April 16, 2024 |

4. SETUP

Before operating the Walfront Constant Current Electronic Load Module, ensure all connections are secure and correct.

- 1. Power Connection:** Connect a suitable DC power supply to the module's power input jack. Ensure the voltage and current ratings of your power supply match the module's requirements.
- 2. Load Connection:** Connect the device or battery you wish to test to the input terminals (labeled 'IN+' and 'IN-'). Observe correct polarity.
- 3. Output Connection:** The module acts as a load. Connect the positive and negative terminals of the power source or battery under test to the corresponding input terminals on the module.



Figure 4.1: Overview of the Walfront Constant Current Electronic Load Module. This image displays the main components including the digital displays, rotary encoder, heat sink, and connection terminals.

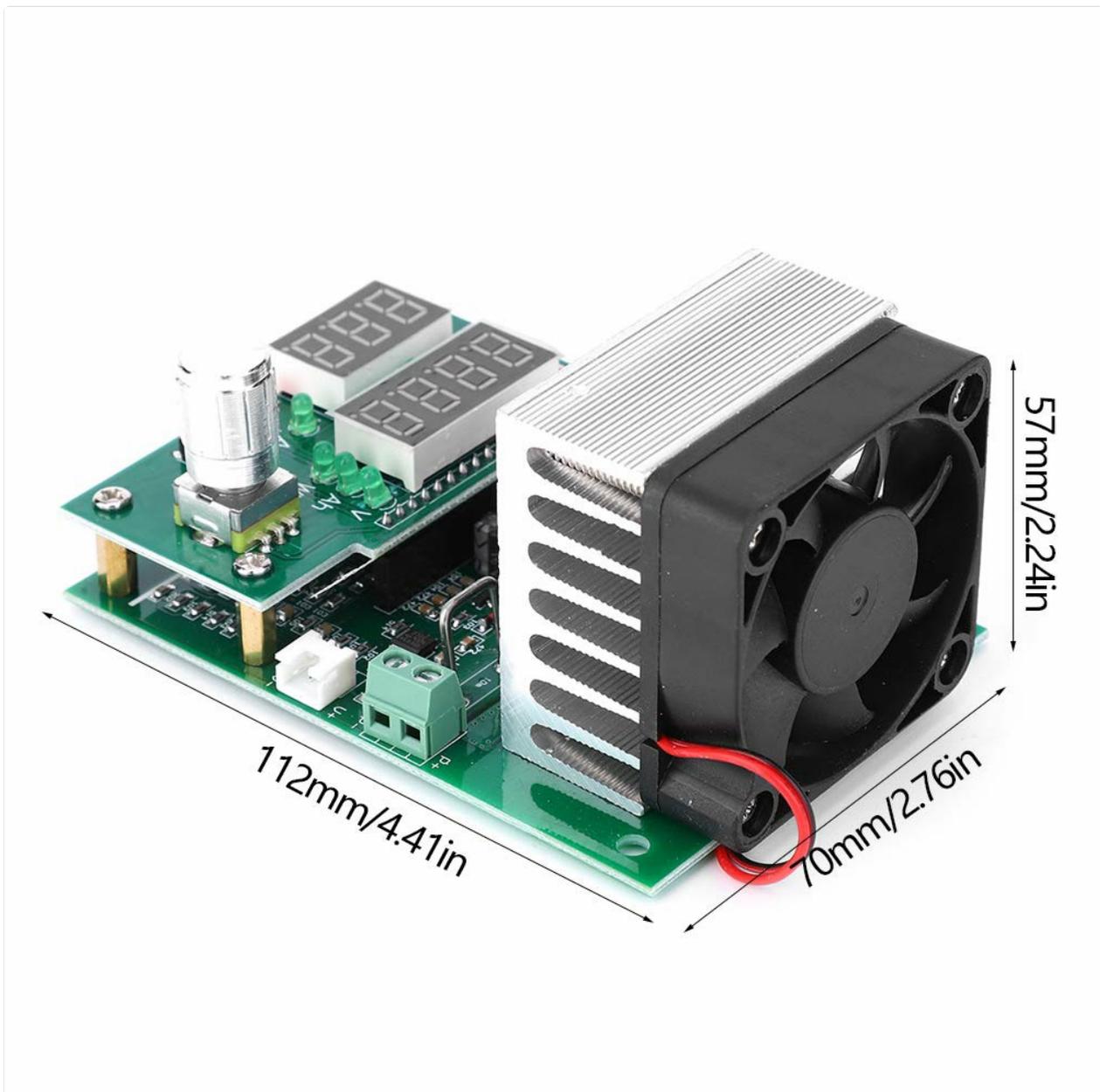
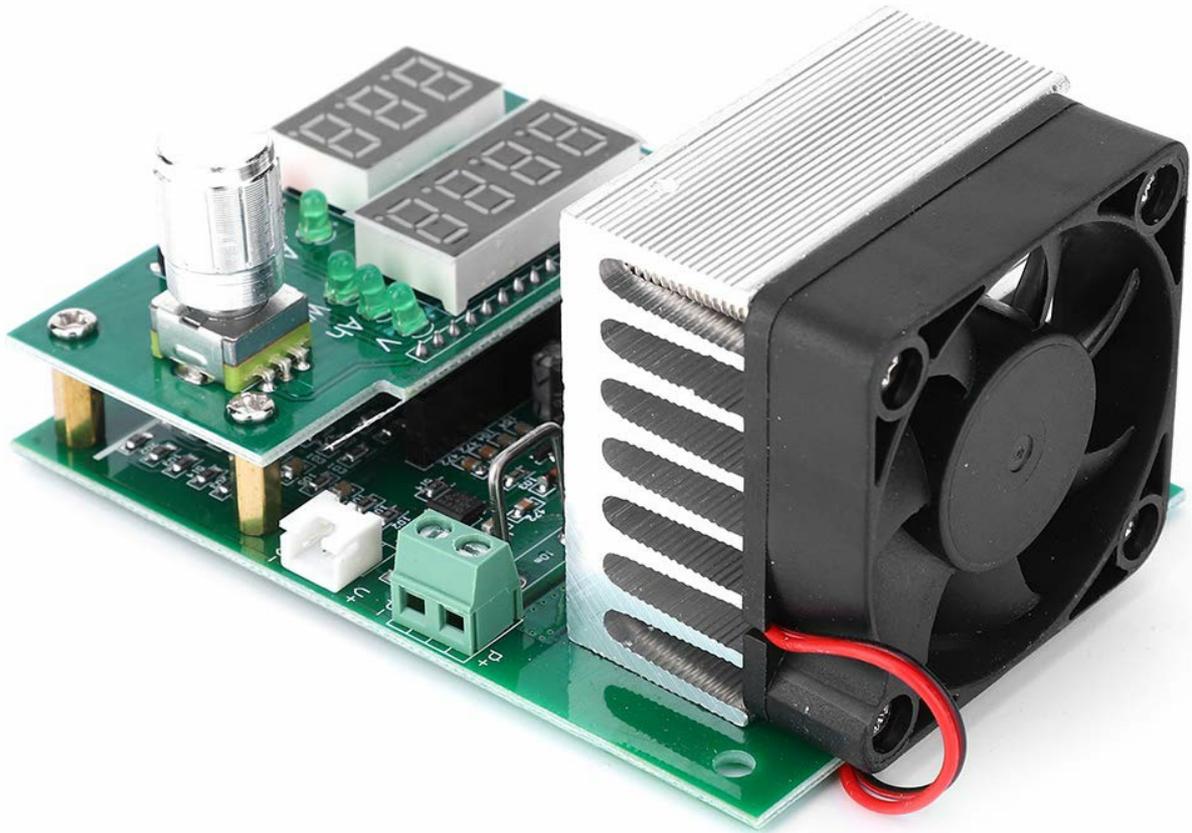


Figure 4.2: Dimensions of the Walfront Constant Current Electronic Load Module. The image shows the length (112mm/4.41in) and width (70mm/2.76in) of the module, along with the height of the fan and heatsink (57mm/2.24in).

5. OPERATING INSTRUCTIONS

The module is designed for straightforward operation using its rotary encoder and digital displays.

1. **Power On:** Once connected, apply power to the module. The digital displays will illuminate, showing current readings.
2. **Setting Parameters:** Use the rotary encoder to navigate through settings and adjust parameters such as the constant current value. Rotate the encoder to change values and press it to confirm selections or switch between settings.
3. **Monitoring:** The digital tube displays provide real-time readings of relevant parameters, such as current draw or voltage.
4. **Buzzer Alerts:** Pay attention to audible buzzer alerts, which indicate specific operational states or warnings.
5. **Automatic Memory:** The module automatically saves your last settings, so you do not need to reconfigure them after power cycles.



Rotary encoder settings, easy to operate and versatile!
The multi-tone buzzer sounds a high level of operational experience.
With full parameter automatic memory function,
it is very suitable for assembling the power
adapter automatic aging cabinet.

Figure 5.1: Close-up view of the module's controls and displays. This image highlights the rotary encoder, digital readouts, and indicator LEDs, which are central to operating the device.

6. MAINTENANCE

To ensure the longevity and optimal performance of your Walfront Constant Current Electronic Load Module, follow these maintenance guidelines:

- **Cleaning:** Keep the module clean and free from dust and debris. Use a soft, dry cloth for cleaning. Avoid using liquid cleaners directly on the electronic components.
- **Ventilation:** Ensure the fan and heatsink are not obstructed to allow for proper airflow and cooling. Regular checks for dust accumulation on the fan blades and heatsink fins are recommended.
- **Storage:** Store the module in a dry, cool environment, away from direct sunlight and extreme temperatures.
- **Handling:** Handle the module with care to avoid physical damage to the circuit board or components.

7. TROUBLESHOOTING

If you encounter issues with your Walfront Constant Current Electronic Load Module, consider the following troubleshooting steps:

- **No Power:**

- Check the power supply connection to the module.
- Verify that the power supply is functioning correctly and providing the correct voltage.

- **Incorrect Readings:**

- Ensure the load is properly connected to the input terminals with correct polarity.
- Confirm that the settings on the rotary encoder are configured as intended for your test.

- **Overheating:**

- Check if the fan is operating. If not, ensure it is connected and free from obstructions.
- Ensure adequate ventilation around the module.
- Verify that the load applied is within the module's specified operating limits.

- **Buzzer Constantly On/Off:**

- Refer to the specific operational states indicated by the buzzer. This may signal an over-current, over-voltage, or over-temperature condition.
- Adjust the load or input parameters accordingly.

If problems persist after attempting these steps, please contact Walfront customer support for further assistance.

8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or visit the official Walfront website. Keep your purchase receipt as proof of purchase for any warranty claims.