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RUSIERMTET XY7025

User Manual: XY7025 CNC Adjustable DC Stabilized Voltage Power Supply

Model: XY7025 | Brand: RUSIERMTET

1. INTRODUCTION

This manual provides comprehensive instructions for the safe and efficient operation of the RUSIERMTET XY7025 CNC Adjustable DC Stabilized Voltage Power Supply. This advanced step-down module is designed for precise voltage and current regulation, making it suitable for a wide range of electronic applications requiring a stable and adjustable power source. Please read this manual thoroughly before installation and operation to ensure optimal performance and safety.

2. SAFETY INSTRUCTIONS

Always observe the following safety precautions to prevent injury or damage to the device:

- Ensure the input voltage does not exceed the maximum specified limit (70V).
- Do not operate the device in wet or damp conditions.
- Avoid short-circuiting the output terminals.
- Ensure proper ventilation to prevent overheating, especially during high-power operation.
- Disconnect power before making any connections or disconnections.
- This device is intended for use by qualified personnel familiar with electronic circuits and power supplies.

3. KEY FEATURES

- **CNC Adjustable Output:** Precise digital control for voltage and current settings.
- **High Power Output:** Capable of delivering up to 70V, 25A, and 1750W.
- **Constant Voltage (CV) and Constant Current (CC) Modes:** Automatically switches between modes to maintain stable output.
- **Integrated Display:** Real-time display of voltage, current, and power.
- **Robust Electronic Components:** Constructed with high-quality components for reliable and long-lasting performance.
- **User-Friendly Design:** Designed for ease of installation and operation.

- **Versatile Applications:** Suitable for industrial, automotive, and various electronic projects.

4. PACKAGE CONTENTS AND OVERVIEW

The standard package includes the XY7025 main power module and the digital control panel. Optional accessories such as a WiFi module or infrared remote controller may be included depending on the purchased variant.



Figure 4.1: XY7025 Power Supply Module and Digital Control Panel.

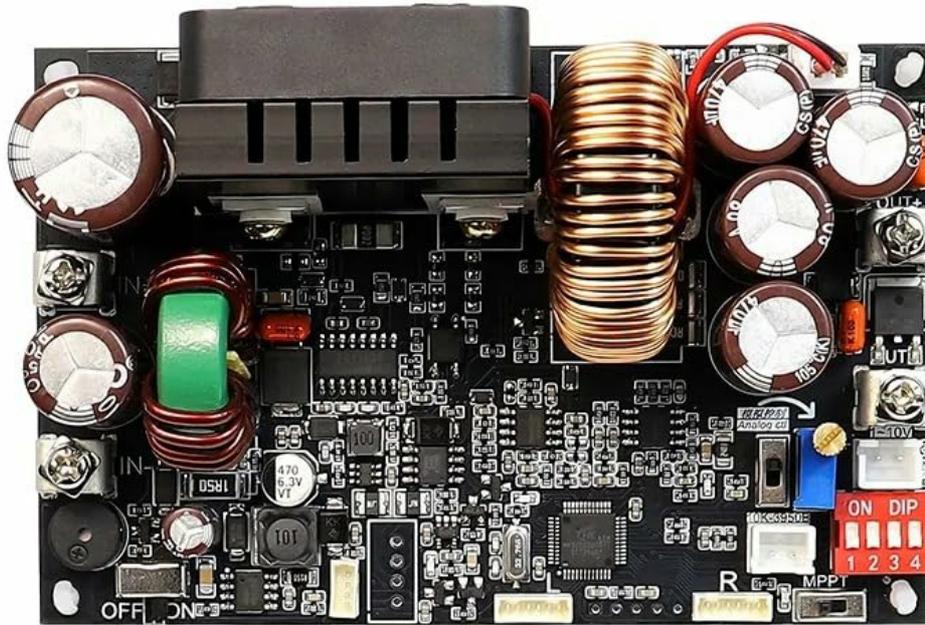
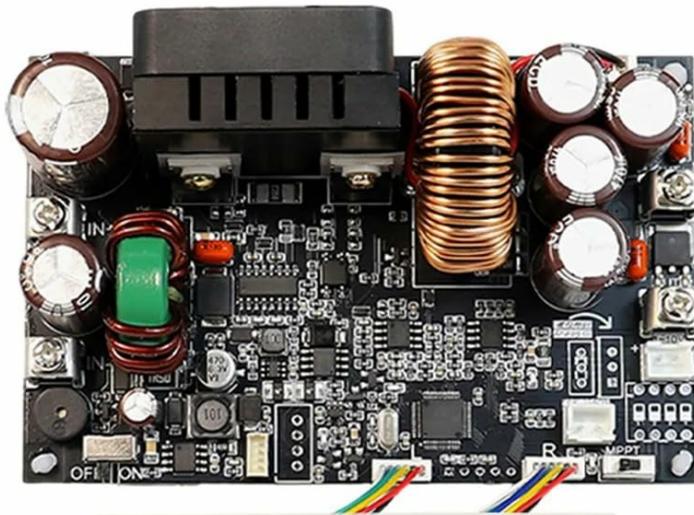


Figure 4.2: Top view of the XY7025 main power module, showing input/output terminals and components.

Optional Accessories:

XY7025



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**WIFI
Connect APP**



Figure 4.3: XY7025 Power Supply with optional WiFi module for APP connectivity.



Figure 4.4: XY7025 Power Supply with optional Infrared Remote Controller.

5. SETUP AND INSTALLATION

5.1 Physical Installation and Dimensions

The XY7025 module and control panel are designed for integration into various enclosures or setups. Refer to the dimensions below for proper mounting and opening sizes.

Product size

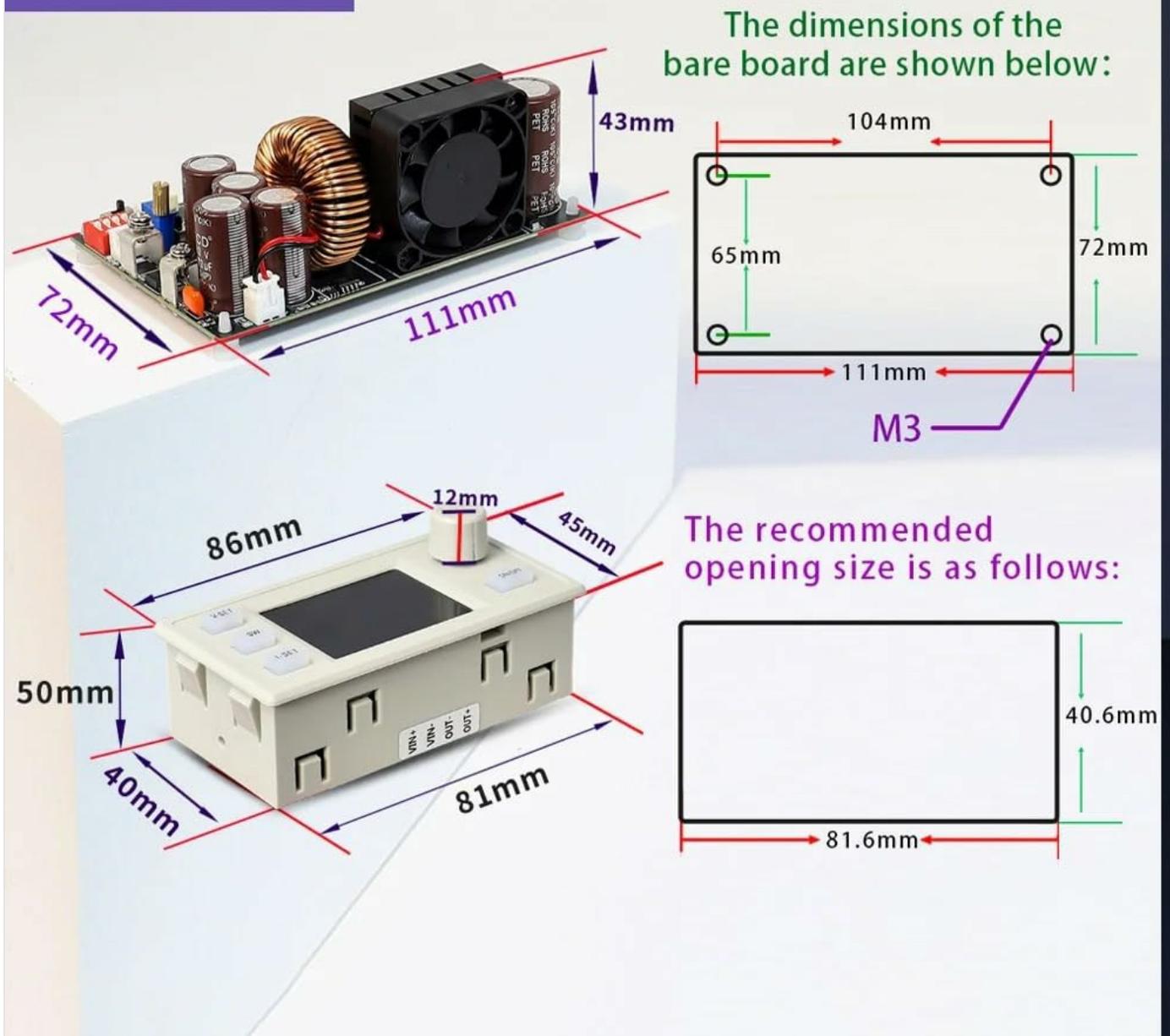


Figure 5.1: Product dimensions for the XY7025 module and recommended opening size for the control panel.

- **Main Module Dimensions:** Approximately 111mm (L) x 72mm (W) x 43mm (H).
- **Control Panel Dimensions:** Approximately 86mm (L) x 50mm (W) x 40mm (H).
- **Recommended Opening Size for Control Panel:** Approximately 81.6mm (L) x 40.6mm (W).

5.2 Electrical Connections

1. **Input Power Connection:** Connect your DC input power source to the "IN+" and "IN-" terminals on the main module. Ensure the input voltage is within the acceptable range (e.g., 8V-60V for a 70V output, typically input must be higher than desired output for step-down).
2. **Output Load Connection:** Connect your load to the "OUT+" and "OUT-" terminals. Observe polarity.
3. **Control Panel Connection:** Connect the ribbon cable from the control panel to the corresponding header on the main module. Ensure correct orientation.
4. **Grounding:** For safety and stable operation, ensure proper grounding if applicable to your setup.

Note: Always double-check all connections before applying power. Incorrect wiring can damage the device or connected

equipment.

6. OPERATING INSTRUCTIONS

6.1 Powering On/Off

- **Power On:** After all connections are secure, apply input power. The control panel display should illuminate.
- **Power Off:** Disconnect the input power source.
- **Output Enable/Disable:** Press the **ON/OFF** button on the control panel to enable or disable the output. When disabled, the output voltage will drop to zero.

6.2 Setting Voltage and Current

The XY7025 allows precise adjustment of output voltage and current limits.

1. Setting Voltage (V-SET):

- Press the **V-SET** button. The voltage display will start blinking.
- Rotate the rotary encoder knob to adjust the desired output voltage.
- Press the rotary encoder knob to confirm the setting, or wait a few seconds for it to auto-confirm.

2. Setting Current Limit (I-SET):

- Press the **I-SET** button. The current display will start blinking.
- Rotate the rotary encoder knob to adjust the desired maximum output current. This acts as a current limit.
- Press the rotary encoder knob to confirm the setting, or wait a few seconds for it to auto-confirm.

3. Switching Display Modes (SW):

- Press the **SW** button to cycle through different display modes, such as input voltage, output power, etc. (Specific modes may vary slightly).

6.3 Constant Voltage (CV) and Constant Current (CC) Modes

The XY7025 automatically operates in either Constant Voltage (CV) or Constant Current (CC) mode:

- **CV Mode:** When the load current is below the set current limit, the power supply maintains the set output voltage. The "CV" indicator on the display will be active.
- **CC Mode:** When the load current reaches the set current limit, the power supply automatically reduces the output voltage to prevent the current from exceeding the limit. The "CC" indicator on the display will be active. This protects both the power supply and the connected load.

7. TECHNICAL SPECIFICATIONS

Parameter	Value
Model Number	XY7025
Input Voltage Range	(Not explicitly stated, typically higher than max output for step-down)
Output Voltage Range	0V - 70V (Adjustable)
Output Current Range	0A - 25A (Adjustable)

Parameter	Value
Output Power	Up to 1750W
Display Type	Digital LED Display
Operating Temperature	Standard (as per electronic components)
Dimensions (Main Module)	Approx. 111mm x 72mm x 43mm
Dimensions (Control Panel)	Approx. 86mm x 50mm x 40mm
Material	Electronic components, Metal

8. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the device. Do not use liquid cleaners or solvents.
- **Ventilation:** Ensure that the ventilation openings are not obstructed to allow for proper heat dissipation.
- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures when not in use for extended periods.
- **Inspection:** Periodically inspect cables and connections for any signs of wear or damage.

9. TROUBLESHOOTING

Problem	Possible Cause	Solution
No display/No power output	No input power; Incorrect wiring; Blown fuse (if applicable)	Check input power source and connections. Verify wiring polarity. Inspect for internal fuse if accessible.
Output voltage is lower than set	Operating in Constant Current (CC) mode; Input voltage too low; Overload	Check if the CC indicator is active. Reduce load current or increase current limit. Ensure input voltage is sufficient. Reduce load.
Output current is lower than set	Operating in Constant Voltage (CV) mode; Load resistance too high	Check if the CV indicator is active. The current is limited by the load. Ensure load is connected correctly.
Device overheats	Insufficient ventilation; Excessive load	Ensure proper airflow around the module. Reduce the load or operate within specified power limits. Consider active cooling if necessary.

10. WARRANTY INFORMATION

RUSIERMTET stands by the quality of its products. While specific warranty periods may vary by region or retailer, the product is backed by a commitment to quality. If you encounter any issues due to manufacturing defects, please contact customer support for assistance. A "Money-Back Guarantee" is offered, reflecting confidence in the product's quality.

11. CUSTOMER SUPPORT

For any questions, concerns, or technical assistance regarding your XY7025 power supply, please contact RUSIERMTET customer support. Our knowledgeable team is available to provide exceptional support and ensure your satisfaction.

Please refer to your purchase documentation or the seller's website for specific contact details.



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