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> Bolisila GA605B Laboratory DC Power Supply User Manual

Bolisila GA605B

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Model: GA605B | Output: 60V, 5A

1. INTRODUCTION

Thank you for choosing the Bolisila GA605B Laboratory DC Power Supply. This device is designed to provide a stable and adjustable DC power source for various laboratory, educational, and industrial applications. It features precise control over voltage and current, ensuring reliable performance for your projects. Please read this manual thoroughly before operating the device to ensure safe and efficient use.

2. SAFETY INSTRUCTIONS

WARNING: Failure to follow these safety instructions may result in electric shock, fire, or damage to the device.

- Always connect the power supply to a grounded outlet.
- Do not operate the device in wet or damp conditions.
- Ensure proper ventilation to prevent overheating.
- Do not open the casing; there are no user-serviceable parts inside. Refer servicing to qualified personnel.
- Before making any connections or disconnections, ensure the power supply is turned off and unplugged.
- Verify the input voltage matches your local power grid specifications.

3. PRODUCT OVERVIEW

The Bolisila GA605B features a clear display and intuitive controls for easy operation.

3.1 Front Panel



Figure 1: Front view of the Bolisila GA605B DC Power Supply, showing the display, voltage/current adjustment knobs, and output terminals.

- **Power Switch:** Turns the unit on/off.
- **Voltage Adjustment Knob:** Coarse and fine adjustment for output voltage.
- **Current Adjustment Knob:** Coarse and fine adjustment for output current limit.
- **LED Display:** Shows real-time output voltage and current.
- **Output Terminals:** Positive (+), Negative (-), and Ground (GND) terminals for connecting loads.

3.2 Rear Panel



Figure 2: Rear view of the Bolisila GA605B DC Power Supply, showing the AC input socket and cooling fan.

- **AC Input Socket:** For connecting the power cord.
- **Cooling Fan:** Provides necessary ventilation.

4. SETUP

1. **Unpacking:** Carefully remove the power supply from its packaging. Inspect for any signs of damage during transit.
2. **Placement:** Place the unit on a stable, level surface with adequate ventilation around it. Ensure no vents are blocked.
3. **Power Connection:**
 - Ensure the power switch on the front panel is in the "OFF" position.
 - Connect the provided AC power cord to the AC input socket on the rear panel.
 - Plug the other end of the power cord into a grounded electrical outlet.
4. **Initial Power On:**
 - Turn the power switch to the "ON" position. The LED display should illuminate.
 - Verify that the voltage and current displays show readings (typically 0.00V and 0.00A if no load is connected).
 - Turn the power switch "OFF" before connecting any load.

5. OPERATING INSTRUCTIONS

This section details how to operate your Bolisila GA605B power supply.

5.1 Setting Voltage and Current Limits

1. **Pre-setting Voltage:**
 - Ensure no load is connected to the output terminals.
 - Turn on the power supply.
 - Adjust the **Voltage Adjustment Knob** (coarse and fine) to set the desired output voltage. Observe the voltage display.
2. **Pre-setting Current Limit:**
 - With no load connected, turn the **Current Adjustment Knob** (coarse and fine) fully clockwise to its maximum setting.
 - Short-circuit the output terminals (connect the positive and negative terminals with a short wire). The current display will show a reading, and the "CC" (Constant Current) indicator may light up.
 - Adjust the **Current Adjustment Knob** to set the desired current limit.
 - Remove the short circuit. The "CV" (Constant Voltage) indicator should light up, and the current display should return to zero.

5.2 Connecting a Load

1. Ensure the power supply is OFF.
2. Connect the positive (+) terminal of your load to the positive (+) output terminal of the power supply.
3. Connect the negative (-) terminal of your load to the negative (-) output terminal of the power supply.
4. If your load requires grounding, connect it to the GND terminal.
5. Turn on the power supply. The voltage and current displays will show the actual output values.

Note: The power supply will operate in Constant Voltage (CV) mode if the load current is below the set current limit. If the load current attempts to exceed the set limit, the power supply will switch to Constant Current (CC) mode, and the output voltage will drop to maintain the set current.

6. MAINTENANCE

Proper maintenance ensures the longevity and reliable operation of your power supply.

- **Cleaning:** Disconnect the power supply from the AC outlet before cleaning. Use a soft, dry cloth to wipe the exterior. Do not use abrasive cleaners or solvents.
- **Ventilation:** Regularly check that the cooling fan and vents are free from dust and obstructions. Use compressed air to gently clear dust if necessary.
- **Storage:** When not in use for extended periods, store the power supply in a cool, dry place, away from direct sunlight and excessive humidity.
- **No User Serviceable Parts:** Do not attempt to open or repair the unit yourself. This will void the warranty and may expose you to hazardous voltages.

7. TROUBLESHOOTING

This section addresses common issues you might encounter.

Problem	Possible Cause	Solution
No power/display off	Power cord disconnected; Power switch off; Blown fuse; Outlet issue.	Check power cord connection; Turn power switch ON; Check building fuse/breaker; Try a different outlet.
No output voltage/current	Output terminals not connected; Voltage/current knobs set to zero; Overload protection activated.	Ensure load is connected correctly; Adjust voltage/current knobs; Reduce load or check for short circuit.
"CC" indicator always on	Load current exceeds set limit; Short circuit in load.	Increase current limit; Check load for short circuits or excessive current draw.
Unit overheats	Blocked ventilation; Excessive ambient temperature; Prolonged high load.	Ensure vents are clear; Operate in a cooler environment; Reduce load or operating time.

8. SPECIFICATIONS

Technical specifications for the Bolisila GA605B DC Power Supply.

- **Model:** GA605B
- **Input Voltage:** AC 110V/220V $\pm 10\%$ (Switchable)
- **Output Voltage:** 0-60V DC (Adjustable)
- **Output Current:** 0-5A DC (Adjustable)
- **Output Power:** 0-300W
- **Voltage Regulation:** $CV \leq 0.1\% + 10mV$; $CC \leq 0.1\% + 10mA$
- **Load Regulation:** $CV \leq 0.1\% + 10mV$; $CC \leq 0.1\% + 10mA$
- **Ripple & Noise:** $CV \leq 20mVrms$; $CC \leq 20mArms$
- **Display:** LED Digital Display
- **Operating Temperature:** 0°C to 40°C (32°F to 104°F)
- **Dimensions (L x W x H):** Approximately 260 x 125 x 150 mm
- **Weight:** Approximately 2.5 kg

9. WARRANTY AND SUPPORT

Bolisila products are manufactured to high-quality standards. This product comes with a standard manufacturer's warranty against defects in materials and workmanship. Please refer to your purchase documentation for specific warranty terms and duration.

For technical support, troubleshooting assistance, or warranty claims, please contact your retailer or the Bolisila customer service department. Have your model number (GA605B) and purchase date ready when contacting support.

Contact Information: (Please refer to your product packaging or retailer's website for the most current contact details.)

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