

FA-GB2/B

FA-GB2/B GB2 System Power Supply Unit User Manual

Model: FA-GB2/B

1. INTRODUCTION

Thank you for choosing the FA-GB2/B GB2 System Power Supply Unit. This manual provides essential information for the proper installation, operation, and maintenance of your power supply unit. Please read this manual thoroughly before installation and keep it for future reference to ensure safe and efficient use of the product.

The FA-GB2/B is designed to provide stable and consistent power to your GB2 system, ensuring reliable operation and protecting your investment. Its robust design is built to meet or exceed industry standards for power delivery.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury and damage to the unit:

- Installation should only be performed by qualified personnel.
- Ensure the power supply is disconnected before any installation, maintenance, or troubleshooting procedures.
- Do not expose the unit to moisture, extreme temperatures, or direct sunlight.
- Verify that the input voltage matches the specifications of the unit (100-240Vac).
- Do not attempt to open or repair the unit. Refer all servicing to qualified service personnel.

3. PACKAGE CONTENTS

Please check the box for the following items:

- FA-GB2/B GB2 System Power Supply Unit
- Installation Tools (as specified by manufacturer)
- This User Manual

4. SETUP

The FA-GB2/B power supply unit is designed for easy installation and integration into your existing GB2 system infrastructure. Follow these steps for proper setup:

4.1. Mounting the Unit

Select a suitable location for mounting the power supply unit. Ensure it is in a dry, well-ventilated area, away from direct heat sources or excessive dust. The unit is typically designed for DIN rail mounting or screw mounting. Use appropriate fasteners for secure installation.

4.2. Wiring Connections

Refer to the diagram on the unit for correct wiring. Ensure all connections are secure and properly insulated.



Figure 1: FA-GB2/B Power Supply Unit showing input and output terminals. The unit displays 'MODEL: FA-GB2/B', 'PRI: (N-L) 100-240Vac 50-60Hz' for primary input, and 'OUT: (BUS) 28Vdc $\pm$ 2V / 2A' for bus output. The input terminals are labeled '+', 'N', 'L', 'L' with an indication for 100-240 Vac. The 'Golmar' brand logo and CE mark are also visible.

- **Input Power (PRI):** Connect the 100-240Vac 50-60Hz power source to the 'N' (Neutral) and 'L' (Line) terminals as indicated on the unit. Ensure proper polarity.
- **Output Power (OUT):** Connect the GB2 system bus to the 'BUS' terminals. The output is 28Vdc $\pm$ 2V / 2A. Observe correct polarity for the bus connection.
- **Grounding:** Ensure the unit is properly grounded according to local electrical codes.

After all connections are made, double-check them for correctness and security before applying power.

5. OPERATING

Once the FA-GB2/B power supply unit is correctly installed and wired, it operates automatically to provide power to your GB2 system.

- **Power On:** Apply power to the input terminals. The unit will begin supplying stable DC power to the connected GB2 system.
- **Status Indicators:** (If applicable, check your specific unit for LED indicators) Some units may have LED indicators to show power status or fault conditions. Refer to the unit's labeling for interpretation.
- **Normal Operation:** The unit is designed for continuous operation. It will maintain a consistent 28Vdc output to the GB2 bus, ensuring the proper functioning of all connected devices.

6. MAINTENANCE

The FA-GB2/B power supply unit is designed for minimal maintenance. However, periodic checks can help ensure its longevity and reliable performance.

- **Cleaning:** Keep the unit clean and free from dust. Use a soft, dry cloth to wipe the exterior. Do not use liquid cleaners or solvents.
- **Ventilation:** Ensure that the ventilation slots on the unit are not obstructed to allow for proper heat dissipation.
- **Connection Checks:** Periodically inspect all wiring connections to ensure they remain tight and free from corrosion.
- **Environmental Conditions:** Ensure the operating environment remains within the specified temperature and humidity ranges.

No user-serviceable parts are inside the unit. Do not attempt to open the casing.

7. TROUBLESHOOTING

If you encounter issues with your FA-GB2/B power supply unit, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No power output	No input power; Incorrect wiring; Unit failure	Check input power source; Verify wiring connections; If problem persists, contact support.
Intermittent power	Loose connections; Overload; Environmental factors	Check all connections; Ensure total load does not exceed 2A; Verify operating environment.
Unit is hot to touch	Poor ventilation; Overload	Ensure ventilation slots are clear; Reduce load if exceeding 2A; If excessive, contact support.

If the problem cannot be resolved using the above table, do not attempt further repairs. Contact qualified service personnel.

8. SPECIFICATIONS

Feature	Specification
Model	FA-GB2/B
Input Voltage (PRI)	100-240Vac, 50-60Hz
Output Voltage (OUT)	28Vdc ± 2V
Output Current	2A
Manufacturer	Alpha Communications
ASIN	B0F27D3XW5
First Available	March 22, 2025

9. WARRANTY AND SUPPORT

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