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LIBO Smart Home DYX5A

LIBO AC90V/260V 5A Access Control Power Supply User Manual

Model: DYX5A | Brand: LIBO Smart Home

1. Introduction

Thank you for choosing the LIBO AC90V/260V 5A Access Control Power Supply. This device is designed to provide stable DC12V power for various access control systems and electric door locks, featuring UPS backup battery support and adjustable time delay. Please read this manual carefully before installation and operation to ensure proper use and safety.

2. Safety Information

- **Indoor Use Only:** This device is designed for indoor use. Do not expose it to rain, moisture, or extreme temperatures.
- **Qualified Personnel:** Installation and wiring should only be performed by qualified personnel to prevent electric shock or damage to the device.
- **Power Disconnection:** Always disconnect the main power supply before performing any installation, wiring, or maintenance.
- **Proper Grounding:** Ensure the device is properly grounded according to local electrical codes.
- **Overload Protection:** Do not exceed the specified output current (5A) to avoid damage.
- **Battery Safety:** If using an external backup battery, ensure it is correctly connected and of the specified type (12V 7AH). Incorrect battery connection can cause damage or fire.



Figure 2.1: Front and back view of the LIBO Access Control Power Supply. Note the 'CAUTION INDOOR USE ONLY' label on the front panel.

3. Product Overview

3.1 Key Features

- **Wide Input Voltage:** AC 90V ~ 260V, 50Hz ~ 260Hz.
- **Standard Output:** DC 12V, 5A.
- **Backup Battery Support:** Supports external 12V 7AH backup battery (battery not included).
- **Adjustable Lock Delay:** 0 to 15 seconds.
- **Output Modes:** NC/NO outputs for controlling various types of electric locks.
- **Comprehensive Protection:** Overvoltage, overcurrent, and fault protection. Automatic shutdown if voltage drops below 9V.
- **Versatile Application:** Suitable for building intercom systems, various entrance/exit guard controllers, and access control electric door locks.

3.2 Components



Figure 3.1: Internal view of the power supply unit, showing the circuit board and wiring connections.



Figure 3.2: Detailed view of the circuit board with key components labeled in French. These include the Remote Control Socket, Double Relay (with automatic shutdown below 9V battery voltage), Standard 12V/5A Output, Video Intercom Terminal, Adjustable Voltage (10.5V-13.5V), Timed Electric Lock (0-15 seconds adjustable), Battery Indicator, Transformer, and Heat Sink.

4. Specifications

Model	DYX-5A
Dimensions (L x W x H)	212 x 173 x 70 mm (approx. 8.35 x 6.81 x 2.76 inches)
Input Voltage	AC 110 ~ 260 V / 50 ~ 60Hz
Output Voltage	DC 12 V / 5A
Lock Delay	0 to 15 seconds (adjustable)
Power Protection	Short-circuit / Overload / Overcurrent / Overvoltage protection
Power Output	50W
Operating Temperature	-20°C ~ 65°C (-4°F ~ 149°F)
Weight	1.05 KG (approx. 2.31 lbs)

Material	Plastic, Metal
Installation Type	Screw-in

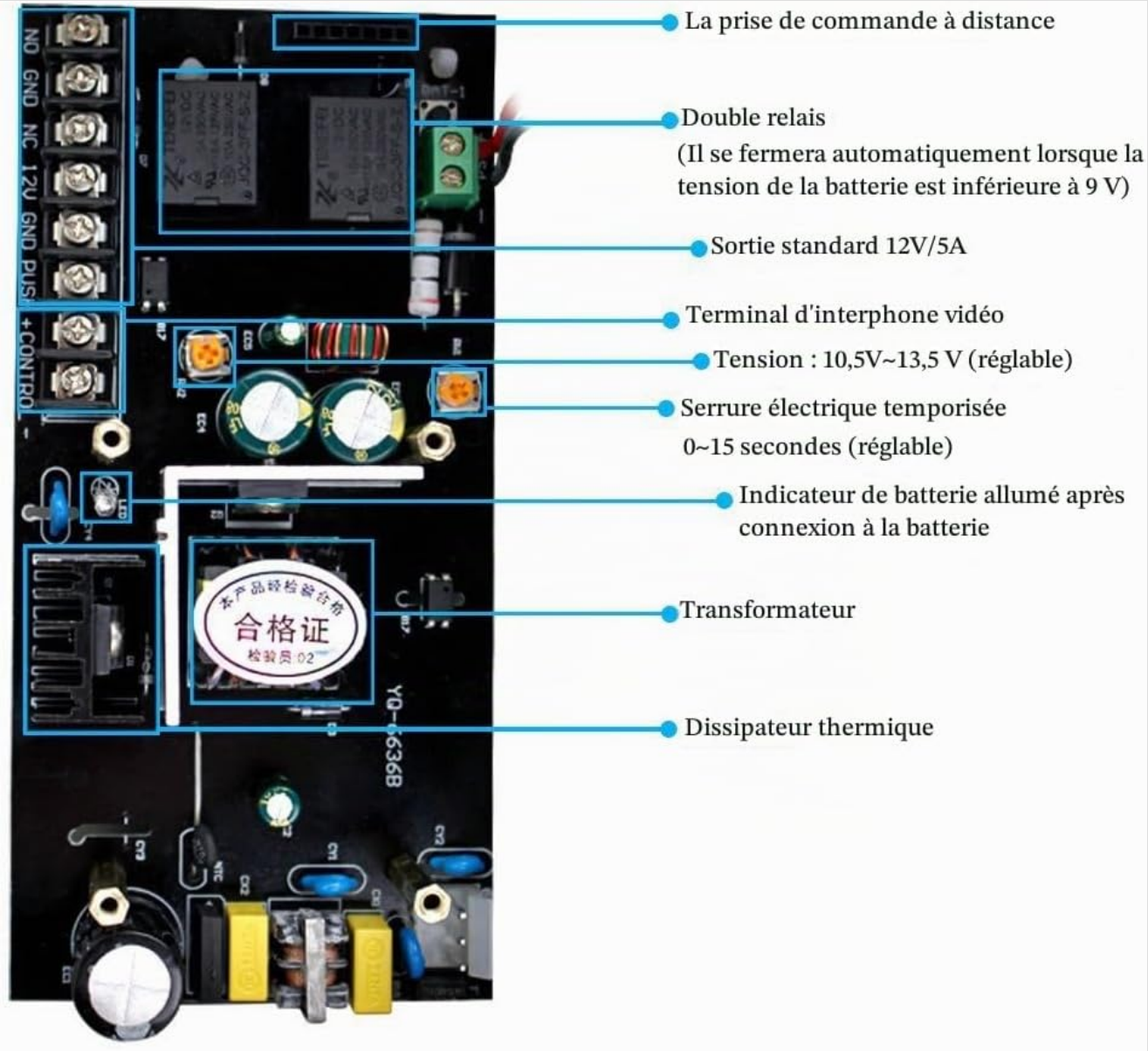


Figure 4.1: Product dimensions: 212mm (length) x 173mm (width) x 70mm (height).

5. Setup

5.1 Mounting

The power supply unit is designed for screw-in installation. Choose a secure, dry, and indoor location. Mark the positions for mounting screws using the holes on the back of the unit. Securely fasten the unit to the wall or desired surface.

5.2 Wiring Diagram

Refer to the wiring diagram below for connecting the power supply to your access control system components, including the access controller, electric lock (magnetic lock shown), and doorbell.

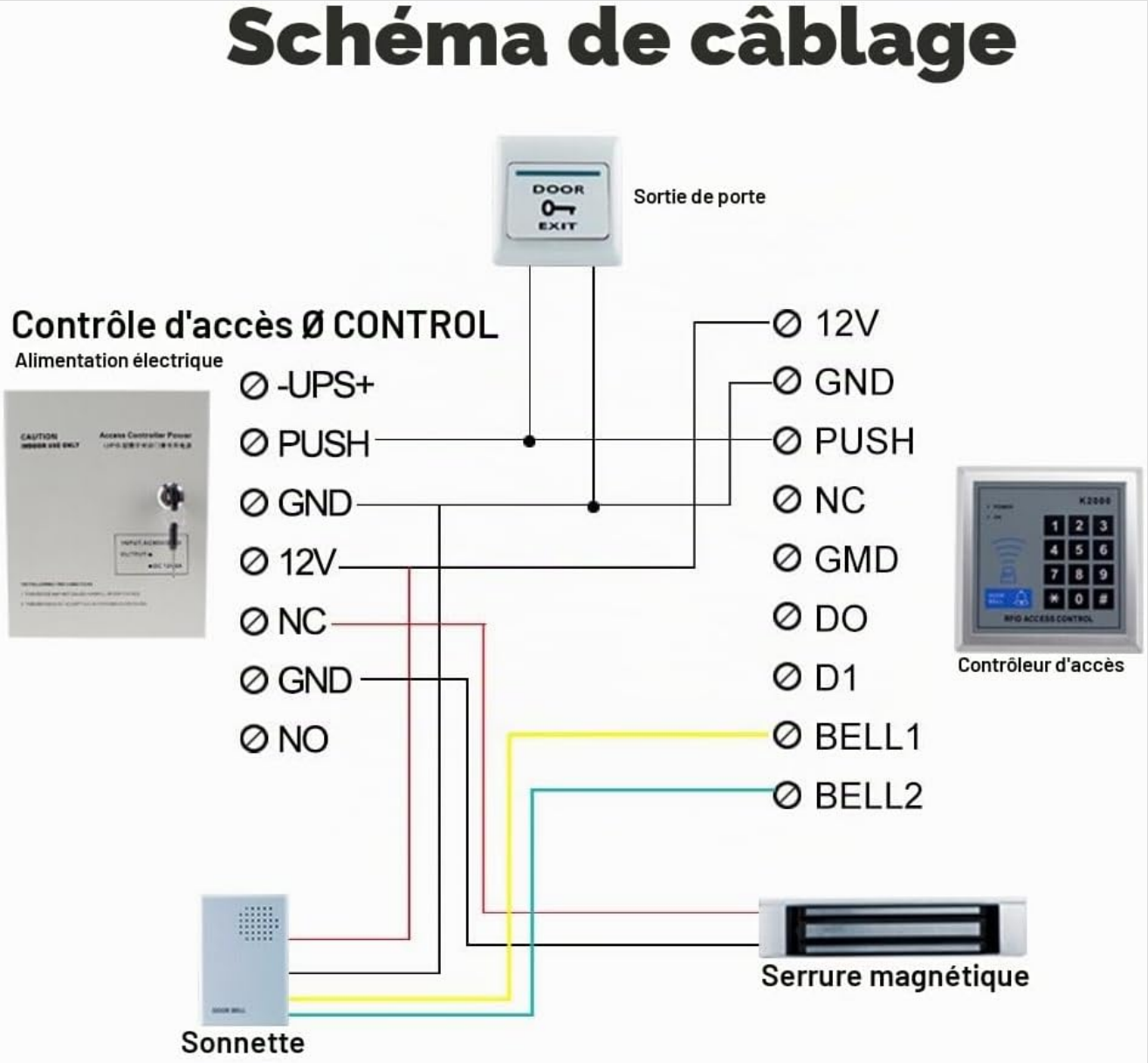


Figure 5.1: Wiring Diagram. This diagram illustrates connections for the power supply, access controller, magnetic lock, and doorbell. Ensure all connections are secure and follow polarity.

- **AC Input:** Connect the AC 110-260V power source to the designated AC input terminals.
- **DC Output:** Connect the DC 12V output to your access control panel or electric lock.
- **NO/NC Outputs:** Use the Normally Open (NO) or Normally Closed (NC) contacts as required by your electric lock type.
- **GND:** Ensure all ground connections are properly made.
- **PUSH:** Connect the exit button to the PUSH terminals.
- **UPS Battery:** Connect a 12V 7AH backup battery (not included) to the UPS+ and UPS- terminals for uninterrupted power during outages. The battery indicator will light up once connected.
- **Remote Control:** If using a remote control module, connect it to the remote control socket.
- **Video Intercom:** Connect video intercom systems to the dedicated terminal.

6. Operating Instructions

6.1 Powering On

After completing all wiring, connect the AC power. The power supply will automatically start providing DC 12V

output. If a backup battery is connected, the battery indicator will illuminate.

6.2 Adjusting Lock Delay

The time delay for the electric lock can be adjusted from 0 to 15 seconds using the potentiometer on the circuit board (refer to Figure 3.2 for location). Use a small screwdriver to carefully turn the potentiometer to set the desired delay.

6.3 Backup Battery Function

In case of a main power failure, the connected 12V 7AH backup battery will automatically take over, ensuring continuous operation of your access control system. The power supply will automatically shut down if the battery voltage drops below 9V to protect the battery.

6.4 Remote Control Operation

If an external remote control module is connected, you can control the electric lock remotely. Refer to the remote control module's specific instructions for pairing and operation.

7. Maintenance

- **Regular Cleaning:** Keep the unit clean and free from dust. Use a soft, dry cloth for cleaning.
- **Connection Checks:** Periodically inspect all wiring connections to ensure they are secure and free from corrosion.
- **Battery Health:** If using a backup battery, check its health and charge level periodically. Replace the battery if it shows signs of degradation.
- **Ventilation:** Ensure adequate ventilation around the unit to prevent overheating.
- **Avoid Liquids:** Do not allow any liquids to enter the unit.

8. Troubleshooting

Problem	Possible Cause	Solution
No power output	No AC input power; Loose connections; Internal fuse blown; Overload protection activated.	Check AC power source; Verify all wiring connections; Reduce load; Contact support if fuse is suspected.
Backup battery not working	Battery not connected; Battery discharged; Faulty battery; Battery voltage below 9V (auto-shutdown).	Ensure battery is correctly connected; Charge or replace battery; Check battery voltage.
Electric lock not responding	Incorrect NO/NC wiring; Lock faulty; Access controller issue; Time delay set too long.	Verify lock wiring (NO/NC); Test lock independently; Check access controller; Adjust time delay.
Unit overheating	Poor ventilation; Overload.	Ensure adequate airflow around the unit; Reduce connected load.

9. Warranty and Support

Warranty information for this product is not explicitly provided in the product details. For any warranty claims, technical support, or service inquiries, please contact your original point of purchase or the LIBO Smart Home

customer service directly. Please have your model number (DYX5A) and purchase details ready when contacting support.

Spare Parts Availability: Information regarding the availability of spare parts is not provided.

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