Power Supply Replacement Quick Guide

Model: WJNSBGPSY (24V DC / 500W) for WEJOIN WJNSBG101 / WJNSBG201 Vehicle Barrier

1. Requirements and Prerequisites

- 24V DC / 20.8A / 500W replacement power supply (Model WJNSBGPSY).
- Cross-head (Phillips) screwdriver and flat-head screwdriver.
- Digital multimeter (to check for absence of voltage before handling).

2. Step 1: Safety Disconnection and De-energization

- Cut Main AC Power: Disconnect the AC power supply (110 VAC / 220 VAC) powering the vehicle barrier at the circuit breaker or main electrical line.
- Open the Cabinet: Open the barrier cabinet door using the security key.
- Set Motor to Manual Mode: Push down the electronic clutch lever to the OFF (O) position on the drive unit to release the motor.
- Verify Zero Voltage: Using the multimeter, confirm that there is no AC or DC voltage present on the input or output terminal blocks of the damaged power supply.

3. Step 2: Power Supply Wiring Identification

Refer to the terminal block layout on the lower part of the power supply:

Line Type	Terminal	Description and Connection
AC Input	**L / N**	AC power input (100–120 VAC / 200–240 VAC).
AC Input	⏚ **(Earth)**	Protective earth ground wire.
DC 24V Output	**+24V**	Connected to the +24V input of the DZE4I controller board.
DC 24V Output	**COM / COM**	DC Return / Ground (GND) output connected to the controller board.

4. Step 3: Removing Damaged Power Supply and Mounting New Unit

- Loosen the terminal screws on the old power supply and remove the wires.
- Loosen the mounting screws securing the metallic chassis of the power supply to the inner cabinet base.
- Place the new WJNSBGPSY power supply onto the same mounting bracket and securely tighten the mounting screws.
- Reconnect the wires to their respective terminals (L, N, Earth, +24V, COM) and properly tighten the terminal block screws.

5. Step 4: Verification, Power-On, and Self-Learning

- Polarity Check: Verify that the +24V and COM polarities go directly to the terminal block marked 'DC24V Power Input' on the DZE4I control board.
- Re-engage Motor: Pull up the electronic clutch lever to ON (I) to mechanically engage the motor.
- Power On: Energize the main AC power line.
- Display Verification: The digital display on the control board should light up, briefly showing the software version (e.g., Pcxx) followed by the input voltage (e.g., uL24).
- Calibration and Cycle Test: Use the remote control or the OPEN (+) / CLOSE (-) buttons on the control board to perform 2 to 3 complete cycles. Verify that the boom arm opens smoothly to 90° and closes to 0° without shaking.

6. Power-Related Diagnostic Codes

Code / Status	Meaning and Solution
Er.ou	Indicates that 24V voltage drops below 18V under load (check that DC24V output screws are securely tightened).
uLxx (flashing)	Notifies that the received voltage is outside normal operating range (below 15V or above 30V).
Er.13	Braking voltage returned to the board is too high (if it persists after rebooting, contact technical support).