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PARADOX PS45 75W Supervised Backup Power Supply Installation Guide

Contents

PARADOX PS45 75W Supervised Backup Power Supply

Product Usage Instructions

- Connect the 4-wire cable (BLK GRN YEL) to the panel bus.
- Connect the battery (7Ah and up to 22Ah additional battery) to the BATT terminals on the board.
- Connect the brick power or external power supply's DC output to the PS45's DC in 15 VDC + – terminals.
- Up to a 22Ah additional battery can be added in an external box to provide 29Ah battery backup.
- The second battery must be installed in parallel to the 7Ah battery, not as a single battery.
- Separate battery and external box tamper connectors are located on the PS45 board.
- Any combination of outputs can be wired in parallel to combine output power.
- Combine outputs 1 and 2 for an output of 3A. Combine outputs 1, 2, and 3 for an output of 4.5A.
- Mount the PS45 box using the designated mounting holes, preferably on a wall.
- The LED indicators on the PS45 display various statuses, such as power, battery, and connection to the panel.

Introduction

- The PS45 is a 75W supervised or standalone backup battery multi-purpose power supply.
- Mainly designed to power up to 10 video cameras or any 13.8V-rated devices.
- With up to 29 Ah battery backup capability, the PS45 will provide a reliable, robust backup power solution.
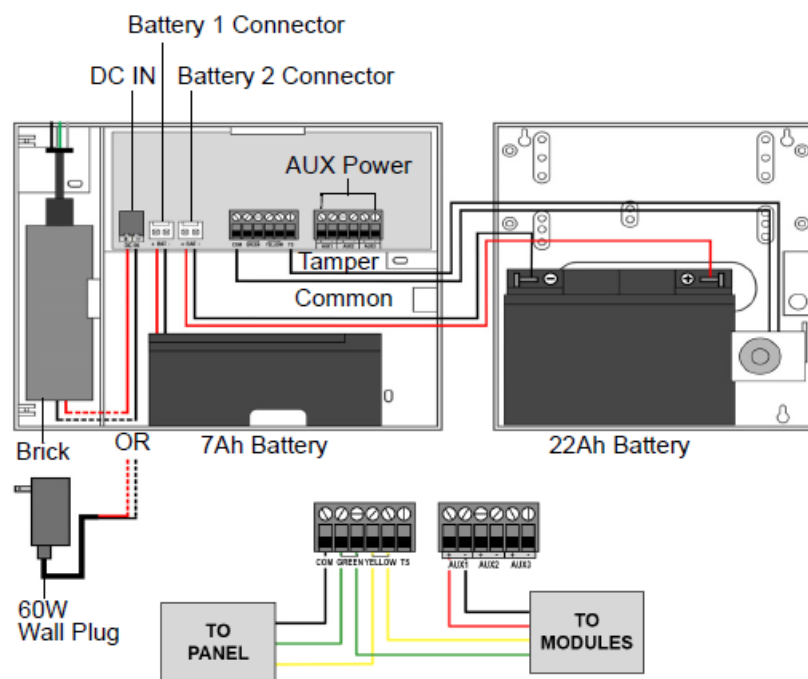
Compatibility

- EVO192, EVOHD all versions
- MG5075, MG5050, SP5500, SP6000, SP7000 v7.14 and higher
- BabyWare v5.2 and higher
- Infield v5.2 and higher

Connections

- Connect the 4-wire cable (BLK GRN YEL) on the panel bus, there is no need to connect the RED. Connect the

battery (7Ah and up to a 22Ah additional battery) to the BATT terminals on the board using the provided cable.

- Connect the brick power or the external power supply's DC output to the PS45's DC in 15 VDC + – terminals.
- Up to an additional 22Ah battery may be added in an external box, thus providing 29Ah battery backup. The second battery cannot be installed as a single battery in the end product, only in parallel to the 7Ah battery. Separate battery and external box tamper connectors are located on the PS45 board.
- As the battery ages, its capacity diminishes like all rechargeable components.
- The minimum acceptable battery capacity is 90%. Any lower value will result in battery trouble.
- Connect wires to the tamper and common terminals, no enrollment is needed. It will auto detect the tamper once the terminal is shorted, and it will follow panel configuration.
- **Note:** Any combination of outputs can be wired in parallel to combine output power. Combine outputs 1 and 2 for one output of 3A.
- Combine outputs 1, 2, and 3 to one output of 4.5A.
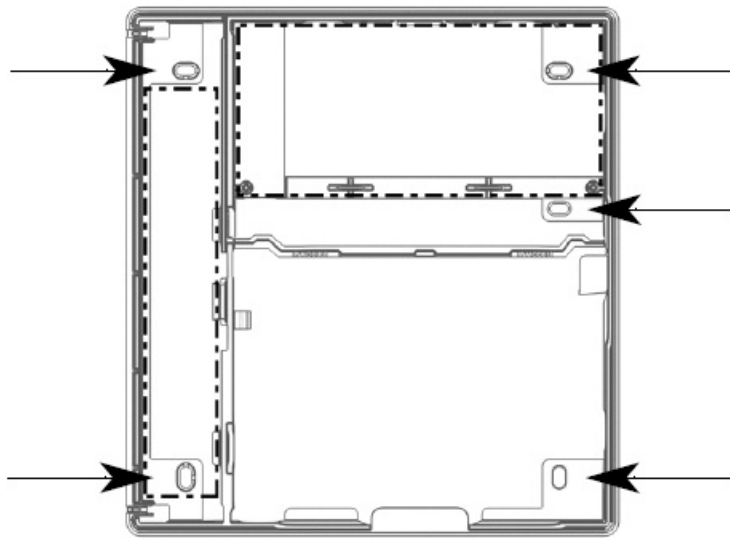- We recommend that only one PS45 power supply is connected when using an MGSP panel.

Note: Adequate breaking capacity circuit shall be connected in series with the AC input. A plug on the power supply cord is used as the disconnect device.
When using the 60W wall plug, the maximum auxiliary current output available is 2.5A.

Box Installation

- Mount the PS45 box using the designated mounting holes, as shown below.
- We recommend installing the PS45 on a wall.

LED

LED	OFF	ON
AC	No power	AC present (Green)
BATT	No battery or AC failure	Battery present
BUS	No connection to the panel	Panel is online
1A	If the current is below 1A	If the current is between 1A and 2.5A (Green)
2.5A	If the current is below 2.5A	If the current is between 2.5A and 4A (Green)
4A	If the current is below 4A	If the current is above 4A (Orange)

Upgrading Firmware

- The PS45's firmware can be upgraded in Infield via BabyWare using a 307USB Direct Connect Interface.

Programming EVO

1. Enter section [3038].
2. Select option [7] to enable or disable Tamper supervision on the bus module. The default is disabled.
3. Enter section [3034]. Select options [5] and [6] to define Keypad/Bus Module Tamper Recognition options. Refer to the table below.

Options		Description
5	**6**	
OFF	**OFF**	Disabled
OFF	ON	Trouble only
ON	OFF	When armed: Follows zone types for zone tamper; generates trouble for module tamper. When disarmed: Trouble only
ON	ON	When armed: Follows zone types When disarmed: generates audible alarm

4. Enter section [4003].
5. Enter the PS45's eight-digit module serial number.
6. Enter the three-digit module section number you wish to program.
7. Enter section [002]. The value programmed in this section represents how long the Power Supply Module will wait before reporting an AC power failure to the control panel. The trouble and trouble restore will be generated after the AC fail delay of the module.
8. Enter a three-digit decimal value (000 to 255 minutes). The default is set 30 minutes.

Programming MGSP

1. Enter section [700].
2. Select option [7] to enable or disable Tamper supervision on the bus module. Default is disabled.
3. Enter section [705]. Select options [3] and [4] to define Keypad/Bus Module Tamper Recognition options. Refer to the table below.
4. Enter section [839]. The value programmed in this section represents how long the Power Supply Module will wait before reporting an AC power failure.
5. Enter a three-digit decimal value (000 to 255 minutes). The default is set 30 minutes.

Technical Specifications

AC Power	100 to 240 Vac, 1A, 50-60 Hz
Auxiliary Voltage Output	15 Vdc +/- 5% AC or battery backup*
Auxiliary Current Output	4.0A maximum continuous current, cut off at 4.5A
Type of Power Supply	Type A
Battery	7 Ah in single box installation 7 Ah (single box) + 22 Ah in dual box installation
Low Battery	11.9 Vdc
Charging	500 mA to 1500 mA, adaptive
Operating Temperature	-20 to +50 °C (-4 to 122 °F)
Humidity	95% maximum
Bus Supervision	AC, Battery, Aux voltage status and Consumption, Tamper
Dimensions (H x W x D) and Weight	25.4 x 27.3 x 8.9 cm (10 x 10.75 x 3.5 in.) 1.3 kg (2.86 lbs.)
Certifications	EN 50131-1, EN 50131-6, Grade 2 Class II Certification Body: Applica Test and Certification

- When AC power is disconnected and the power supply is operating on battery, the Auxiliary Voltage Output is 15V±10%.

Warranty

- For complete warranty information on this product, please refer to the Limited Warranty Statement is found on our website: **paradox.com/terms** or contact your local distributor.
- Specifications may change without prior notice.

Patents

- US, Canadian, and international patents may apply. Paradox is a trademark or registered trademark of Paradox Security Systems (Bahamas) Ltd. **PARADOX.COM**
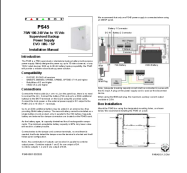
FAQ

- **Q: How can I upgrade the firmware of the PS45?**
  - **A:** The PS45's firmware can be upgraded in Infield via BabyWare using a 307USB Direct Connect

Interface.

- **Q: How do I program the PS45 for MGSP?**
  - **A:** Programming for MGSP involves entering specific sections and selecting options to define supervision settings. Follow the instructions provided in the manual for detailed steps.

Documents / Resources

[**PARADOX PS45 75W Supervised Backup Power Supply**](#) [pdf] Installation Guide
PS45 75W Supervised Backup Power Supply, PS45, 75W Supervised Backup Power Supply, Supervised Backup Power Supply, Backup Power Supply, Power Supply, Supply

References

- [**Paradox - Headquarters**](#)
- [**Paradox - Headquarters**](#)
- [**User Manual**](#)