

PS45

**75W 100-240 Vac to 15 Vdc
Supervised Backup
Power Supply
EVO / MG / SP**

Installation Manual



Introduction

The PS45 is a 75W supervised or standalone backup battery multi-purpose power supply. Mainly designed to power up, 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.

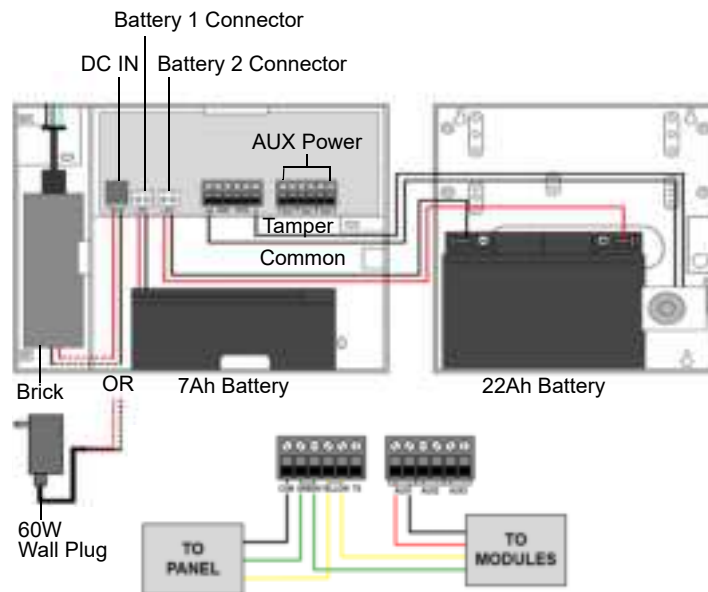
Up to an 22Ah additional battery may be added in an external box thus providing 29Ah battery backup. The second battery cannot be installed as a single battery in end product, only in parallel to the 7Ah battery. Separate battery and external box tamper connectors are located on the PS45 board.

As the battery ages, its capacity diminishes like all rechargeable components. The minimum acceptable battery capacity is 90%. Any lower value will result in a 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 one output of 4.5A.

We recommend that only one PS45 power supply is connected when using an MGSP panel.

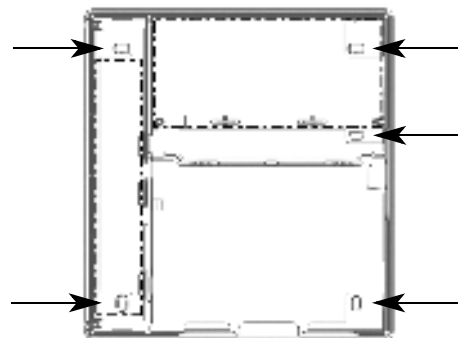


Note: Adequate breaking capacity circuit shall be connected in series with the AC input. A plug on the power supply cord is used as the disconnect device.

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 fail	Battery present
BUS	No connection to the panel	Panel is online
1A	If current is below 1A	If current is between 1A and 2.5A (Green)
2.5A	If current is below 2.5A	If current is between 2.5A and 4A (Green)
4A	If current is below 4A	If 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. Default is disabled.
- 3. Enter section [3034]. Select option [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). Default is set 30 minutes.

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.

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 option [3] and [4] to define Keypad/Bus Module Tamper Recognition options. Refer to the table below.

Options		Description
3	4	
OFF	OFF	Disabled
OFF	ON	Trouble only
ON	OFF	When armed: Audible alarm When disarmed: Trouble only
ON	ON	Audible alarm

- 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). 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%.