

PS25

Supervised Bus Power Supply EVO/MG/SP



Installation Manual

Version 1.10 and higher

Introduction

The PS25 is a 2.8A supervised switching power supply that connects to the Paradox control panel's bus or may work as a standalone power supply.

The PS25 provides a maximum of 2.5A (13.8VDC) continuous auxiliary power output and charge battery with 300mA. Battery charging current may increase up to 1.2A if auxiliary current is reduced accordingly.

Compatibility

- EVO192, EVOHD v7.14 and higher
- MG5050, SP5500, SP6000, SP7000 v6.80 and higher
- BabyWare v5.1 and higher
- Infield v5.1 and higher

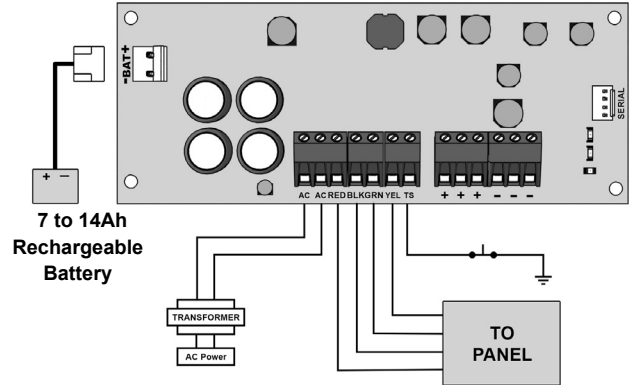
Connections

Connect the 4-wire (RED BLK GRN YEL) to the panel keypad bus. Please note that the RED (+) terminal is not providing power nor is it connected in any way to the PS25; it is provided for convenience only.

Connect the battery (7Ah to 14Ah) and a 40VA transformer. Connect the tamper switch, no enrollment is needed, it will auto detect the tamper once the terminal is shorted and it will follow panel configuration.

Note: 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 load to the three + and - terminals paralleled for your convenience.

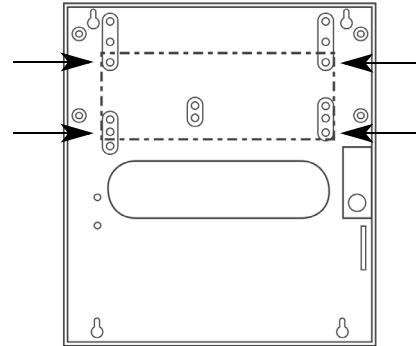


Transformer: Input 110 or 230 Vac, 50 - 60 Hz
Output: 16 Vac, 40 VA

Note: Only one supervised power supply is supported on MG/SP panels.

Box Installation

Mount the PS25 in a metal box using the appropriate mounting holes, as shown below.



Upgrading Firmware

The PS25's firmware can be upgraded in Infield via BabyWare using a 307USB Direct Connect Interface.

LED

LED	OFF	ON
BUS	No connection to panel	Panel online
CHARGE	Not charging	Battery charging
AUX	No power	Aux 10.5V - 14.0V RED: Voltage below 10.3V



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 PS25'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.

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 Input*	100 Vac 0.4A or 230 Vac 0.2A, 50 - 60 Hz
Auxiliary Power Output	13.8 Vdc $\pm$ 5% when AC present 12.8 Vdc when on battery 2.5A max
Power Consumption (without load)	117 mA at 16.5 Vac
Type of Power Supply	Type A
Battery	12 Vdc, 7 Ah to 14 Ah
Low Battery	10.7 Vdc, battery disconnect at 9.5V
Charging	300 mA min to 1200 mA (redirect from auxiliary if less than 2.5A)
Operating Temperature	-20 to +50 C
Humidity	95% maximum
Bus Supervision	AC, Aux voltage, Battery
Dimensions (H x W x D) and Weight	5.6 x 14 x 2.5 cm (2.2 x 5.5 x 0.9 in.) 0.1 kg (0.2 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 Output is 12.8V $\pm$ 16%*

Warranty

For complete warranty information on this product, please refer to the Limited Warranty Statement is found on the website: www.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