

ROSSLARE SECURITY PRODUCTS

PS-14

POWER SUPPLY INSTALLATION INSTRUCTIONS

INTRODUCTION and KEY FEATURES

The PS-14 is a power supply that serves as a spare part for the AC-215; it replaces the existing power supply and provides power to the AC-215 board, readers, and electric locks, as well as battery charging for power backup.

The PS-14 does not require programming. It comes with a battery charger (up to 7Ah), Tamper Output, and two separated power supplies.

The PS-14 power supply converts a 16VAC input from the voltage transformer to a 12 VDC power limited output (see specification) with an integrated battery charger.

INSTALLATION PROCEDURE

The power supply should be installed in accordance with article 760 of the National Electrical Code NFPA 70, as well as applicable Local Codes.

Note: Circuit breaker must be close to the power supply and must be accessible.

1. Mount the Power Supply.
2. Connect AC power (16VAC) to the PS-14 power supply input. The power supply output rated 12VDC and a maximum of 0.5A.
3. Connect the grounding to the ground terminal. Make sure to secure the screw tightly.
4. Connect the ACU power input to the power terminal marked [12VDC (+) and 0.5A (-)].
5. Backup battery is optional. When battery is not used, loss of AC results in the loss of output voltage. When using a backup battery, it must be a UL certified "lead acid" or "gel" type. Connect the battery terminal to power terminal marked [VBAT(+) and 12VDC (-)]. (Battery leads are included.)

WIRING

Use 18 AWG or larger for all power connections. Ensure that the power-limited circuit is wired separately from the non-power limited wiring (16 VAC, Battery).

MAINTENANCE

For proper operation, the unit should be tested at least once a year as described below:

Output voltage test:

Check DC output for proper voltage level under normal load conditions.

Battery test:

Check specified voltage, at both battery terminal and board terminals marked [VBAT(+) (-)] under normal load conditions, verify that the battery is fully charged, and ensure that there is no break in the battery connection wires.

Note: Maximum charging current under discharge is 1.2A.

Note: Battery life expectancy is five years. However, it is recommended to change batteries after four years, or before, if required. Dispose of used batteries according to manufacturer's instructions.

POWER SUPPLY SPECIFICATIONS

Input Voltage

16V AC / 2.5A

Backup Battery Charger

12VDC lead acid battery up to 7Ah

Output Voltage 1

12V DC / 0.5A

Output Voltage 2

12V DC / 1.5A

ELECTRICAL SPECIFICATIONS

Battery Backup

Built in charger for sealed, UL certified 12VDC lead acid battery up to 7Ah

Caution: Risk of explosion, when battery is replaced by a wrong battery type.

Visual Indicators

DC output red LED2 indicator – low voltage

AC input green LED1 indicator – main power

BAT charger red LED3 indicator – backup battery low voltage

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature:

32°F to 120°F (0°C to 49°C)

Operating Humidity:

0 to 90% (Non-Condensing)

MECHANICAL SPECIFICATIONS

Dimensions:

Height: 110 mm

Width: 65 mm

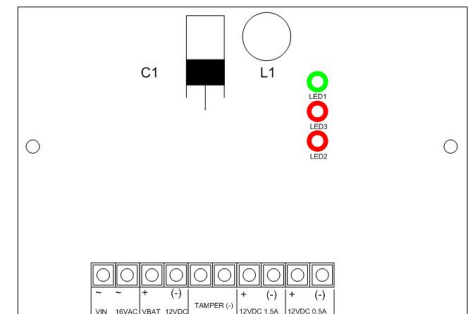
Depth: 83 mm

Transformer

AC Transformer - 120/220V AC/16V AC 2.5A (40VA) Class 2 (not included with PS-14)

Tamper Output (open collector) – indicates faulty power

WIRING DIAGRAM



The following table describes the terminal blocks in the wiring diagram:

Terminal Block	Description
VIN 16VAC	Connects to a transformer that converts 220VAC to 16VAC.
VBAT 12VDC	Connects to a 12V battery. The battery is recharged from this card, and is used as backup if the 16VAC is not operating.
TAMPER (-)	Open collector tamper out indication.
12VDC 1.5A	Power supply output, rated 12VDC and a maximum of 1.5A.
12VDC 0.5A	Power supply output, rated 12VDC and a maximum of 0.5A.

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