

ROSSLARE SECURITY PRODUCTS

PS-33

INSTALLATION MANUAL

INTRODUCTION and KEY FEATURES

The PS-33 is a power supply that serves as a spare part for the AC-225; it replaces the existing power supply and provides power to the AC-225 board, readers, and electric locks, as well as battery charging for power backup.

The PS-33 does not require programming. It comes with a battery charger (up to 7Ah), Tamper Output, and two separated power supplies.

The PS-33 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 power supply input. The power supply output is rated at 12VDC and a maximum of 2A. Use 18 AWG or larger for all power connections (battery, DC output).
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 2A (-)].
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 (-)]. (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 / 4A

Backup Battery Charger

12VDC lead acid battery up to 7Ah

Output Voltage 1

12V DC / 2A

Output Voltage 2

13.8V DC / 3A

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

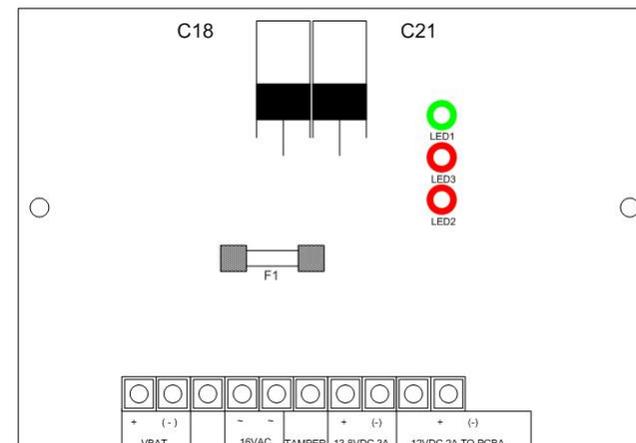
Depth: 83 mm

Transformer

AC Transformer - 120/220V AC/16V AC 4A (64VA) Class 2 (not included with PS-33)

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.
13.8VDC 3A	Power supply output, rated 13.8VDC and a maximum of 3A.
12VDC 2A	Power supply output, rated 12VDC and a maximum of 2A.

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LIMITED WARRANTY

ROSSLARE ENTERPRISES LIMITED S (Rosslare) TWO YEARS LIMITED

WARRANTY is applicable worldwide. This warranty supersedes any other warranty.

Rosslare's TWO YEARS LIMITED WARRANTY is subject to the following conditions:

Warranty

Warranty of Rosslare's products extends to the original purchaser (Customer) of the Rosslare product and is not transferable.

Products Covered By This Warranty and Duration

ROSSLARE ENTERPRISES LTD. AND / OR SUBSIDIARIES (ROSSLARE) warrants that the PS-33 Power Supply is free from defects in materials and assembly in the course of normal use and service. The warranty period commences with the date of shipment to the original purchaser and extends for a period of 2 years (24 months).

Warranty Remedy Coverage

In the event of a breach of warranty, ROSSLARE will credit Customer with the price of the Product paid by Customer, provided that the warranty claim is delivered to ROSSLARE by the Customer during the warranty period in accordance with the terms of this warranty. Unless otherwise requested by ROSSLARE ENTERPRISES LTD. AND / OR SUBSIDIARIES representative, return of the failed product(s) is not immediately required.

If ROSSLARE has not contacted the Customer within a sixty (60) day holding period following the delivery of the warranty claim, Customer will not be required to return the failed product(s). All returned Product(s), as may be requested at ROSSLARE ENTERPRISES LTD. AND /OR SUBSIDIARY'S sole discretion, shall become the property of ROSSLARE ENTERPRISES LTD. AND /OR SUBSIDIARIES.

To exercise the warranty, the user must contact Rosslare Enterprises Ltd. to obtain an RMA number after which, the product must be returned to the Manufacturer freight prepaid and insured.

In the event ROSSLARE chooses to perform a product evaluation within the sixty (60) day holding period and no defect is found, a minimum US\$ 50.00 or equivalent charge will be applied to each Product for labor required in the evaluation.

Rosslare will repair or replace, at its discretion, any product that under normal conditions of use and service proves to be defective in material or workmanship. No charge will be applied for labor or parts with respect to defects covered by this warranty, provided that the work is done by Rosslare or a Rosslare authorized service center.

Exclusions and Limitations

ROSSLARE shall not be responsible or liable for any damage or loss resulting from the operation or performance of any Product or any systems in which a Product is incorporated. This warranty shall not extend to any ancillary equipment not furnished by ROSSLARE, which is attached to or used in conjunction with a Product, nor to any Product that is used with any ancillary equipment, which is not furnished by ROSSLARE.

This warranty does not cover expenses incurred in the transportation, freight cost to the repair center, removal or reinstallation of the product, whether or not proven defective.

Specifically excluded from this warranty are any failures resulting from Customer's improper testing, operation, installation, or damage resulting from use of the Product in other than its normal and customary manner, or any maintenance, modification, alteration, or adjustment or any type of abuse, neglect, accident, misuse, improper operation, normal wear, defects or damage due to lightning or other electrical discharge. This warranty does not cover repair or replacement where normal use has exhausted the life of a part or instrument, or any modification or abuse of, or tampering with, the Product if Product disassembled or repaired in such a manner as to adversely affect performance or prevent adequate inspection and testing to verify any warranty claim.

ROSSLARE does not warrant the installation, maintenance, or service of the Product. Service life of the product is dependent upon the care it receives and the conditions under which it has to operate.

In no event shall Rosslare be liable for incidental or consequential damages.

Limited Warranty Terms

THIS WARRANTY SETS FORTH THE FULL EXTENT OF ROSSLARE ENTERPRISES LTD. AND ITS SUBSIDIARY'S WARRANTY.

THE TERMS OF THIS WARRANTY MAY NOT BE VARIED BY ANY PERSON, WHETHER OR NOT PURPORTING TO REPRESENT OR ACT ON BEHALF OF ROSSLARE.

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