Security Expert

WARNING:

The equipment is to be installed in accordance with:

The Product installation instructions, UL 681 - Installation & Classification of Burglar & Holdup Systems, UL 827 -Central-Station Alarm Services, CAN/ULC-S301, Central & Monitoring Station Burglar Alarm Systems, CAN/ULC-S302. Installation & Classification of Burglar Alarm Systems for Financial & Commercial Premises, Safes & Vaults, CAN/ULC-S561. Installation & Services for Fire Signal Receiving Centers & Systems. The National Electrical Code. ANSI/NFPA 70. The Canadian Electrical Code, Part I. CSA C22.1. The Local Authority Having Jurisdiction (AHJ).

not cause harmful interference, and (2) this device must

accept any interference received, including interference that

may cause undesired operation. This class A digital apparatus

complies with Canadian ICES-003. Cet appareil numérique de la classe A est conforme à la norme NMR-003 du Canada

SP-PSU-4A Security Purpose Power Module 4A

Installation, Power Limited and Non-Power Limited Wiring

- All circuits comply with the requirements for inherent power limitation and are Class 2 except the battery wires and AC wires which are not power limited.
- A minimum of 1/4" (6.35mm) physical separation must be respected between power limited and non power limited wiring (Battery Wires and AC Wires).
- The connection to the mains supply must be made as per local authorites rules and regulations.

Servicina

- Disconnect Mains Power and Battery Cable before servicing.

Farth Ground Connection

- Metallic enclosure must be grounded to earth ground.

CAUTION: INCORRECT WIRING MAY RESULT IN DAMAGE TO THE UNIT

Mains Input Voltage	120VAC (90-264VAC, 47-63Hz)
Operating Current	120VAC 1500mA (Full Load)
DC Output (Auxiliary)	4.0A Max (V10ut + V20ut Total)
Battery Charging	500mA (Typical)
Battery Low	10.5VDC
Battery Restore	11.5VDC
Communication (Serial)	Isolated RS-485 Communication Interface Port
Outputs	2 Solid State Relay Outputs, 50mA 12V Max each
Tamper Input	Dedicated Hardware Tamper Input
Trouble Inputs	8 (internal)
Dimensions (L x W x H)	156.8 x 90 x 60mm (6.17 x 3.54 x 2.36")
Weight	434g (15.33oz)
Operating Temperature	0° to 49°C (32° to 122°F)
Storage Temperature	-10° - 85°C (14° - 185°F)
Humidity	0% to 93% non condensing, indoor use only (Relative Humidity)

Correct module input voltage applie

Incorrect module input voltage applied

Module attempting registration with o

Module is in boot mode awaiting firmware undate

For further details, please refer to the Error Code Display section in the Installation Manual

Backup battery failed its dynamic battery test.

Last backup battery dynamic test successful

Core temperature exceeded, Over Temp Shutdown Activated

Output current exceeded. Over Current Shutdown Activated

Output current exceeded maximum, approaching Over Current Shutdown

Core temperature within 10°C of Over Temp Shutdown

12VDC output operating OK

Core temperature OK

Module is in error state. Error code is displayed by flashing the Red Status indicator

Unknown Error Code Firmware Version

Address Too High Address in Hea

Controller Secured

ocked Device

ON and OFF rapidly with a delay of 1.5 second between each display cyc

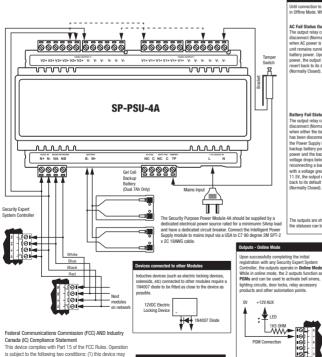
Module communication activity

Single Red flash

Red flashing

Only Red

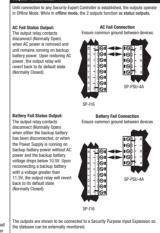
Red/Green flas



SP-PSU-4A has been evaluated for UL

294 UI 1076 UI 1610 UI 1635

CAN/ULC-S319 and CAN/ULC-S559



ALIX WIRING: Min 22AWG Max 16AWG (Depends on

a maximum of 5% voltage drop at the terminals of the powered device has to be observed MODULE NETWORK WIRING: Recommended Belden

9842 or equivalent. (24AWG twisted pair with characteristic impedance of 120ohm or CAT5e / CAT6 are also supported for Data Transmis ground in the same cable. Do not use extra wires to ower devices.) max 900m (3000ft)

Rattery Type to be used: VRI A (valve regulated spaler ead acid type rechargeable battery inded Battery: Yuasa model

NP7-12. 12V.7Ah (www.vu Nominal Voltage: 12V

Nominal Capacity: 7Ah

Battery Maintenance: It is recommended to replace the battery every 3-5 years

Fault

V1 Out /

V2 Out

Battery Rod

The Security Purpose Power Module 4A is supplied as a DIN Rail mount module and is designed to mount on standard DIN Rail. Ensure that there is adequate clearance around all sides of the Intelligent Power Supply and air flow to the vents of the unit is not restricted

Maximum output current level reached

Indicated output current level reached

Installation 1. Hook the lower tabs under the bottom edge of the DIN Rail

- . Push the Intelligent Power Supply against the DIN Rail mount and press firmly on the top centre of the Intelligen Power Supply until the upper tab clips over the upper rail
- Insert a flat blade screwdriver into the hole in the white tab at the top centre of the Intelligent Power Supply 2. Lever the tab up and rotate the unit off the DIN Rail mount

The address of the Security Expert 12V 4A Power reference to the module serial number. The serial number can be found on the identification sticker on the side of

Please refer the Security Expert System Controlle Installation Manual for address programming details

For UL applications, must be powered by a UL Listed (UL 603 or UL 294), power limited power supply capable of supplying at least 4 hours of standby power. For ULC applications, must be powered by a ULC Listed (CAN/ULCS318 or CAN/ULC-S319), power limited power supply capable of supplying a