Security Purpose Power Module 4A

The Security Purpose Power Module 4A provides 12VDC power ideal for running security, access control or automation devices along with large numbers of Security Expert network powered modules in the same installation. The module is designed for use with industry standard DIN Rail mounting.

Feature Highlights

- Mains input ideal for reducing complexity in set up and ready deployment of module
- 2 Form B Relay outputs that can be used as programmable outputs while the module is online, or as additional status outputs for monitoring battery failure/disconnection and AC failure when the module is offline or in standalone mode
- Battery backup connection for continued power delivery in power outage conditions
- Intelligent charging algorithm monitors battery and AC supply allowing optimum performance
- Processor controlled battery level testing and indication
- Connects to the Security Expert module network for intelligent communication and monitoring of actual values
- High performance 32 Bit processor
- Designed for use with industry standard DIN Rail mounting

Reliable Power

The Security Expert Security Purpose Power Module 4A is capable of supplying power to a large number of smaller devices or multiple high current devices with a combined output of 4 Amps total. Additionally, a battery charging circuit current of 500mA is also provided by the module.

A continuous source of power is maintained with the inclusion of intelligent battery backup charging, optimal level maintenance and seamless switch on AC failure. The battery backup, AC status and core temperature, are constantly monitored and failure conditions are communicated to the Security Expert System.

Intelligent Power Monitoring

The Power Supply is able to relay information about critical system voltages, currents and core temperature to the Security Expert Controller by registering as an analog expander module on the Security Expert network.

The Security Expert Controller can then store these values in system registers that can be viewed live from the Security Expert software. This allows live viewing of the system voltages, currents and core temperature along with logging for review at any time.

Communication

Single RS-485 communication interface port used for all network communication functions and interconnection to other modules.

Upgradable Firmware

Utilizing the latest flash technology and high performance communication mediums, the firmware can be updated using the Loadit utility over the system module network.

Technical Specifications

Power Supply	
Mains Input Voltage	120VAC (90-264VAC, 47-63Hz)
Mains Input Operating Current	120VAC 1500mA (Full Load)
DC Output (Combined)	12.64VDC 4.0A Max (V1Out + V2Out Total)
DC Output (Single)	12.2VDC 3A Max
Battery Charging	500mA (Typical)
Battery Low	10.5VDC
Battery Restore	11.5VDC
Communication	
RS-485	Isolated Module Network
Outputs	
PGM Outputs	2 Solid State Relay Outputs, 50mA 12V Max each
Inputs	
Tamper	Dedicated Hardware Tamper Input
Trouble Inputs	8 (internal)
Dimensions	
Dimensions (L x W x H)	156.8 x 90 x 60mm (6.17 x 3.54 x 2.36")
Weight	434g (15.33oz)
Temperature	
Operating	0˚-50˚C (32˚ - 122˚F)
Storage	-10˚- 85˚C (14˚ - 185˚F)
Humidity	0%-93% non-condensing, indoor use only (relative humidity)

Ordering Information

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

Regulatory Notices

Federal Communications Commission (FCC)

FCC Rules and Regulations CFR 47, Part 15, Class A.

This equipment complies with the limits for a Class A digital device, pursuant to Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference; (2) This device must accept any interference received, including interference that may cause undesired operation.

Industry Canada

ICES-003

This is a Class A digital device that meets all requirements of the Canadian Interference-Causing Equipment Regulations.

CAN ICES-3 (A)/NMB-3(A)

RCM (Australian Communications and Media Authority (ACMA))

This equipment carries the RCM label and complies with EMC and radio communications regulations of the Australian Communications and Media Authority (ACMA) governing the Australian and New Zealand (AS/NZS) communities.

CE – Compliance to European Union (EU)

Conforms to European Union (EU) Low Voltage Directive (LVD) 2014/35/EC, Electro-Magnetic Compatibility (EMC) Directive 2014/30/EU and RoHS Recast (RoHS2) Directive: 2011/65/EU.

This equipment complies with the rules, of the Official Journal of the European Union, for governing the Self Declaration of the CE Marking for the European Union as specified in the above directive(s) per the provisions of the following standards:

Security Grade 3, Environmental Class II, EN 50131-1:2006, EN 50131-3:2009, EN 50131-6:2008, ČSN EN 60950-1 ed.2:2006

UL/ULC (Underwriters Laboratories)

- UL 294 for Access Control System Units
- UL1610 for Central-Station Burglar-Alarm Units
- CAN/ULC S319 for Electronic Access Control Systems
- CAN-ULC S304 for Signal Receiving Centre And Premise Burglar Alarm Control Units
- CAN/ULC S559 for Fire Signal Receiving Centres And Systems