

The 3Amp 13.75VDC SMART power supply is a universal power supply which can be used wherever battery backed 12V supplies are required.

When used with the Inner Range Integriti system, the 3Amp SMART power supply offers Quick-Connect status monitoring of critical power-related events such as Battery Fault, Low Battery, Battery Not Present, Battery Failed Test, AC Supply Failure, Supply Low Volts, Power Supply Failure and status monitoring of self-resetting, processor controlled Smart Fuses. It also features general purpose AC Fail & Battery Fail alarm outputs and a separate Battery Charger output with Deep Discharge Protection.

The 3Amp power supply boasts a highly reliable design that delivers exceptional stability when used with the recommended battery type and is also suitable for providing power to card readers including Proximity type reader heads.

General Purpose Use

The Integriti 3Amp power supply can also be used as a general purpose, battery-backed, 13.75VDC supply to power legacy or 3rd party equipment via the plug-on screw terminals. It is extensively used to power Integriti or Concept modules, detectors, readers and auxiliary devices such as strobes, sounders and locks.



Features

- High-level monitoring of PSU status (with Integriti modules)
- Quick-Connect PSU interface (for Integriti modules)
- Separate battery charger output
- Deep Discharge Battery protection
- Battery reverse polarity protection
- Smart Fuse protection
- Universal low-level status outputs - AC Fail and Battery Fail
- Low-level Trigger Battery Test input
- Separate LAN+ & DET+ DC output connections (screw terminals)
- 16VAC input (a 4Amp transformer is required)

SMART Features

The Integriti 3Amp SMART power supply is designed primarily for use as a battery backed supply for Integriti modules supporting the 10-way Quick-Connect "External Power" bus connection, these modules include:

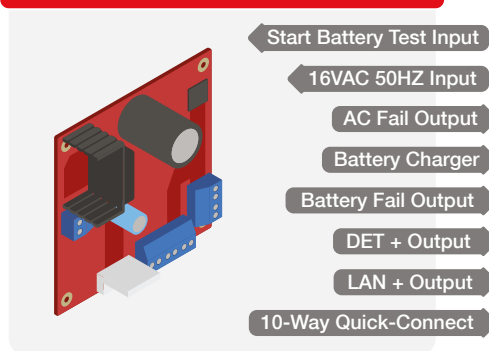
- The Integriti Standard LAN Access Module (SLAM)
- The Integriti Intelligent LAN Access Module (ILAM)
- The Integriti 8 Zone LAN Expander
- The Integriti Access Controller (IAC)

When used with these modules the 3Amp PSU offers Plug&Play Quick-Connect high-level status monitoring of critical power-related events such as:

- Battery Fault
- Low Battery
- Battery Not Present
- Battery Failed Test
- AC Supply Failure
- Supply Low Volts
- Power Supply Failure
- Status monitoring of self-resetting, processor controlled Smart Fuses

Connectivity

3Amp 13.75VDC SMART Power Supply



Specifications

Physical

Size:	95(L) x 95(W) x 45(D) (mm)
Mounting:	4 x M3 screws to Inner Range chassis clips
Installation Environment:	0°C - 50°C @15% - 90% relative humidity (non-condensing)
Working Temperature Range:	-25°C to +50°C ambient unforced ventilation

High-Level PSU Status Monitoring

(Available when connected to Integriti LAN modules via 10-way Quick-Connect cable)

Status Alarms:	AC Failure, Power Supply Low Volts, Battery Fault, Battery Low, Battery Not Present, Power Supply Failure, LAN+ Smart Fuse Tripped, Detector+ Smart Fuse Tripped, Battery Failed Test, Trigger Battery Test
----------------	---

Battery Alarm Thresholds

Low Battery Alarm:	11.0VDC
Deep Discharge Protection:	10.4VDC
Recovery From Deep Discharge:	12.2VDC

Connections

Outputs:	10-way Quick-Connect socket for Integriti modules 1 x DET +/- 13.75VDC & 1 x LAN +/- 13.75VDC Battery charger connection (for 12V lead acid battery) Low-level AC Failure output (open collector output) Low-level Battery Fail output (open collector output) External Earth terminal for connection to enclosure
Inputs:	Start Battery Test Input Trigger (zero volt dry contact input)

LED Indicators

Status Indicators:	AC OK Battery Charging
Fault Indicators:	Battery Fault Fault on DET+ Connection Fault on LAN + Connection

Power Specifications

Input Voltage:	16VAC, 50hz
Input Current:	3Amp with 4Amp transformer fitted and LK1 jumper fitted 1.5Amp with 1.5Amp plug-pack fitted and LK1 jumper removed
Output Voltage:	13.75VDC +/-5%, up to 3Amp. (battery fully charged)
Max Output Current:	3Amp with LK1 fitted 1Amp with LK1 removed
Switching Frequency:	370 kHz. approx.
Load Regulation:	+0 / -500mV @ I out = 0.1A to 3.0A
Conversion Efficiency:	85%. approx
Output Ripple:	< 100mVRMS @ full load

Battery Types

Recommended Battery:	1 x 7Ah, 9Ah or 18Ah 12V Sealed Lead Acid Only
----------------------	--

Compliance

Electrical:	 
Environmental:	 

Ordering Options



21193

Integriti 3Amp 13.75VDC SMART Power Supply PCB & accessories



Power Supply Cables

21199

Integriti PSU patch lead, 430mm 10way to 10way header (Supports SMART PSU status monitoring with Integriti modules and Integriti 3 & 8Amp SMART PSU's)



21282

Integriti PSU patch lead, 500mm 10way to Red&Black flying leads (Does not support SMART PSU status monitoring with Integriti modules)