8Amp SMART Power Supply

The 8Amp 13.75VDC Smart Power Supply Unit (PSU) is a highly efficient power supply solution designed to meet the modern high spec requirements unique to access control and intruder systems. Monitoring of the power supply status is pivotal to the operation and performance of any security system, and the Integriti 8Amp Smart power supply delivers this very effectively.

When used with the Integriti system, the 8Amp Smart power supply offers Quick-Connect status monitoring of critical power-related aspects 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 all Smart Fuses. It also features general purpose AC Fail & Battery Fail alarm outputs and a separate Battery Charger output with Deep Discharge Protection.

The 8Amp Smart power supply features a highly reliable design that offers exceptional stability when used with the recommended battery type and is also suitable for providing power to card readers including Proximity type reader heads.

The Integriti 8Amp Smart power supply is designed primarily for use as a battery-backed supply for Integriti modules supporting the Quick-Connect "External Power" bus connection. This includes the Standard LAN Access Module (SLAM), the Integriti Intelligent LAN Access Module (ILAM), the Integriti 8 Zone LAN Expander and the Integriti Access Controller (IAC).

When used with these modules, the power supply and battery status may be monitored and reported via dedicated System Inputs on the Host Module, with no need to physically wire inputs for power supply monitoring.

The Integriti 8Amp Smart power supply can also be used as a general purpose, battery-backed supply to power legacy or 3rd party equipment via the plug-on screw terminals.
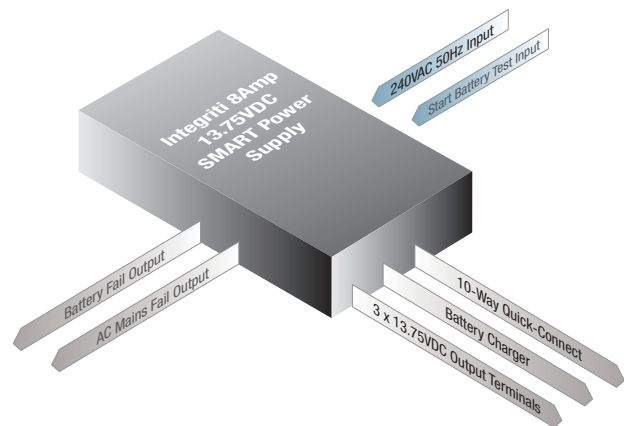
SMART Features

The Integriti 8Amp 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)
- High-level monitoring of PSU status (with the above Integriti modules):
  - Battery Fault, Low Battery and Battery Not Present
  - Battery Failed Test   - AC Supply Failure
  - Supply Low Volts   - Power Supply Failure
  - LAN+ Smart Fuse Tripped   - Detector+ Smart Fuse Tripped
- Dynamic battery testing
- Deep Discharge Battery protection
- Battery reverse polarity protection
- Quick-Connect PSU interface for Integriti modules
- Fully overload protected
- Smart Fuse protection
- Intelligent load sharing
- LED status indicators
- Universal low-level status outputs - AC Fail & Battery Fail
- Separate battery charger output
- Constant current limiting on battery charger output
- 3 x heavy duty DC output connections
- 240VAC IEC mains cable input

Connectivity

Specifications

Physical

Size:	274(L) x 100W) x 64(D) (mm)
Weight:	1.1 kg (PSU Only)
Mounting:	4 x M4 screws to chassis
Installation Environment:	0ºC - 50ºC @15% - 90% relative humidity (non-condensing)
Working Temperature Range:	-25ºC to +50ºC 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
	3 x common 13.75VDC +/- Smart Fused heavy duty outputs, suits up to 14 gauge cable
	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)
	IEC type mains power input socket

LED Indicators

Status Indicators:	AC OK
	Battery Charging
Fault Indicators:	Battery Fault
	Fault on V+ Connection
	Fault on Quick-Connect PSU Connection

Power Specifications

Input:	240VAC, 50hz, 1.1Amp
Mains Fuse:	2.0A (T)
Output Voltage:	13.75VDC
Max Output Current:	6.5Amp constant + 1.5Amp charger
	8.0Amp without charger (intelligent load sharing)
	10.0Amp short term with battery support
Load Regulation:	< 2.5% @ load 0-9 Amp
Output Ripple:	< 100mVRMS @ full load
Battery Charging:	CC/CV

Battery Types

Recommended Battery:	1 or 2, 18Ah 12V Sealed Lead Acid Only

Safety Standards

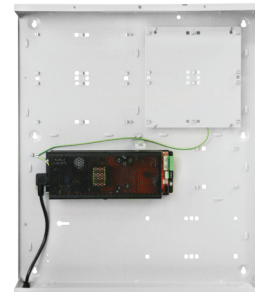|	
	AS/NZS 3820, Essential Safety Requirements for Electrical Equipment AS/NZS 60950.1:2011 Information Technology Equipment
	Safety AS/NZS CISPR 22:2009 Information Technology Equipment
	Radio Disturbance Characteristic
	Limits and methods of measurement. Class A, Class B with snap-on ferrite placed on the mains cable (Wurth 742 717 33)

Compliance

Electrical:	
Environmental:	RoHS

Ordering Options

996092

Integriti 8Amp 13.75VDC SMART Power Supply Module, PSU only (Available in Asia/Pacific region only)

995204PE8

Integriti WideBody Key-Lockable Enclosure fitted with 8Amp 13.75VDC SMART Power Supply Module (Available in Asia/Pacific region only)

995203PE8

Integriti Xlarge Enclosure fitted with 8Amp 13.75VDC SMART Power Supply Module

995220PE8

Rack Mount Enclosure fitted with 8Amp 13.75VDC SMART Power Supply Module (Available in Asia/Pacific region only)

Power Supply Cables

996792

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

996794

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

inner range