

9100EN 1 Amp Power Supply

- High Efficiency (Reduces Power Bills and Carbon Footprint)
- High reliability
- Cost effective switch mode technology
- Intelligent Battery Charging Monitoring
- Deep Discharge Protection
- Remote Fault Monitoring
- Full Rated Load Plus Additional Current for battery charging
- Approved to the Latest EN54 Part 4 Requirements



The Protec 9100EN 1A/ 24 volts switch mode power supply has been designed for use in building fire systems and access control applications. This power supply is fully compliant and approved to the latest EN54 Part 4.

The 9100EN includes intelligent battery charging, mains and battery monitoring with a volt free relay contact fault output for remote monitoring.

The 9100EN output features electronic short circuit protection under both mains and standby battery operation.

Maximum battery life is assured through continuous active battery monitoring and the use of an intelligent charger with temperature compensated final float phase depending upon battery condition.

Deep discharge protection prevents premature battery failure when operating from standby for extended periods.

The inclusion of LED status indicators provides quick diagnostics to the user and/or engineer.

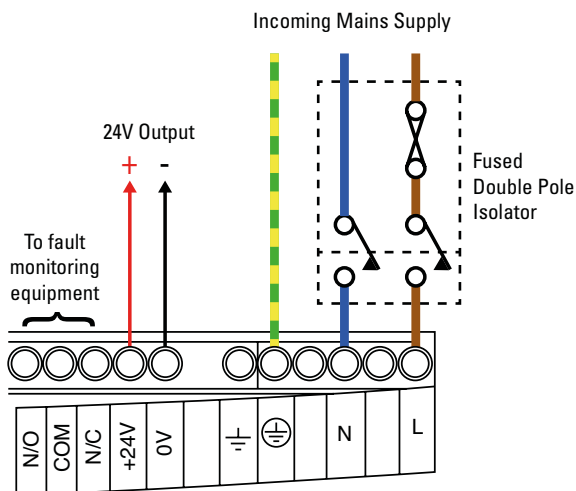
The 9100EN power supply is capable of charging a battery up to 2 x 12V 3.3Ah capacity.

Technical Specification

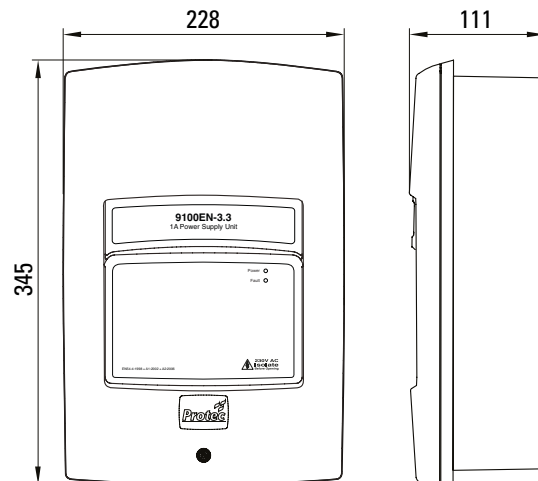
Rated Voltage	85-264V ac rms
Rated Frequency	50 to 60 Hz
Rated Current	600mA rms
Max Inrush Current	20A at 240V from cold
Max Quiescent Load, I_{max_a}	750mA (batteries charging)
Max Alarm Load, I_{max_b}	1A (batteries not charging)
Minimum Load, I_{min}, panel only	5mA
Current taken from the standby batteries during mains fail	Less than 150µA (9100EN is turned off)
Environmental	Designed to meet IP30
Ambient Temperature Limits	-5 to 50°C
Humidity Limits	90% (non-condensation or icing)
Mains Input Fuse (FS1)	1.6A time delay (not user or engineer replaceable)
Battery Type	2 x 12V 3.3Ah Sealed Lead Acid (connected in series) Dimensions: 66 x 134 x 67mm (+/- 1mm)
Battery Protection	1.6A Self resetting thermal 'fuse'

Output Voltage Range	24 – 29V dc with mains present , 17 – 29V dc on batteries
Output Ripple Voltage	400mV maximum (peak to peak) at full output load
Battery Charge Voltage	27.3V at 20°C. Temperature compensated at – 40mV °C. Protected by 1.6A self resetting thermal fuse.
Battery Charge Current	250mA (± 25mA)
Battery Over Voltage Fault Level	28.5V dc (nominal)
Battery Under Voltage Fault Level	22 V dc (nominal)
Battery Low Voltage Cut-off Level	18.5V dc Battery Voltage (outputs turn off)
Battery Monitoring	Charger dip, battery load and internal impedance
Maximum Battery Resistance (R_i)	2Ω (battery internal resistance + lead and connection resistances)
Fault Relay Contact	Maximum rating of 1A at 24V DC (resistive load)

Connection Details



Dimensions (mm)



Product Approval

CoCP No: 0359-CPR-00425
DoP No: PFD-CPR-0109
Relevant Standard: EN54-4