

- **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**

9100EN 1 Amp Power Supply



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.

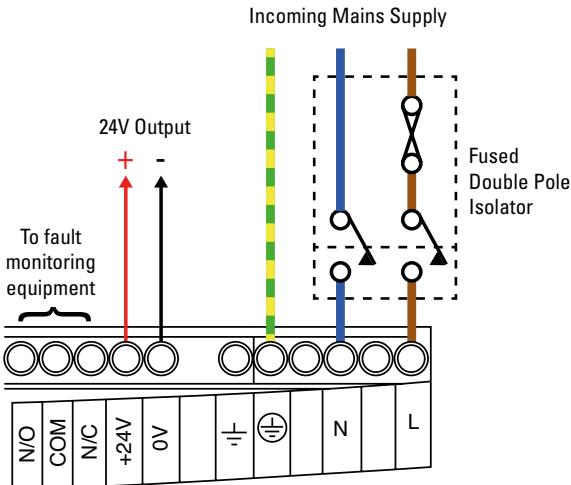
The 9100EN power supply is capable of charging a battery up to 2 x 12V 3.3Ah capacity.

Technical Specification

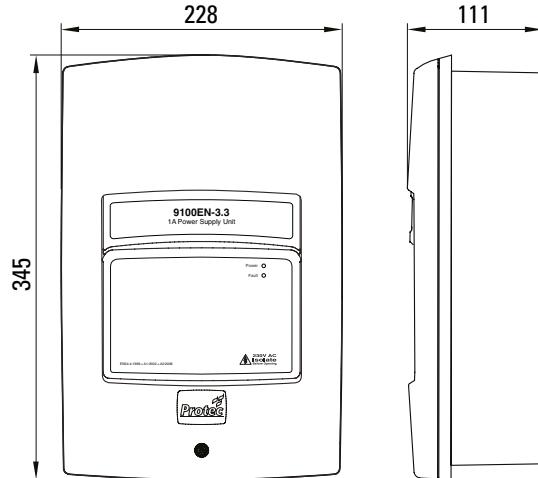


Rated Voltage	85-264V ac rms	Output Voltage Range	24 – 29V dc with mains present , 17 – 29V dc on batteries
Rated Frequency	50 to 60 Hz	Output Ripple Voltage	400mV maximum (peak to peak) at full output load
Rated Current	600mA rms	Battery Charge Voltage	27.3V at 20°C. Temperature compensated at – 40mV °C. Protected by 1.6A self resetting thermal fuse.
Max Inrush Current	20A at 240V from cold	Battery Charge Current	250mA (\pm 25mA)
Max Quiescent Load, I_{max_a}	750mA (batteries charging)	Battery Over Voltage Fault Level	28.5V dc (nominal)
Max Alarm Load, I_{max_b}	1A (batteries not charging)	Battery Under Voltage Fault Level	22 V dc (nominal)
Minimum Load, I_{min}, panel only	5mA	Battery Low Voltage Cut-off Level	18.5V dc Battery Voltage (outputs turn off)
Current taken from the standby batteries during mains fail	Less than 150 μ A (9100EN is turned off)	Battery Monitoring	Charger dip, battery load and internal impedance
Environmental	Designed to meet IP30	Maximum Battery Resistance (R_i)	2 Ω (battery internal resistance + lead and connection resistances)
Ambient Temperature Limits	-5 to 50°C	Fault Relay Contact	Maximum rating of 1A at 24V DC (resistive load)
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'		

Connection Details



Dimensions (mm)



Product Approval

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

