

- Self Contained Supply
- Deep Discharge Battery Protection
- Lightweight & Efficient Unit
- Switch Mode Technology
- Power Factor Corrected
- Designed to Power Protec Range of Control Panels

## 9000/BC3 Power Supplies



The Protec 9000/BC3 power supply is a self-contained supply designed to provide 24V dc and charge associated batteries simultaneously. The charger uses power factor correction to ensure a near-unity power factor, and switch-mode technology to provide a lightweight and efficient unit.

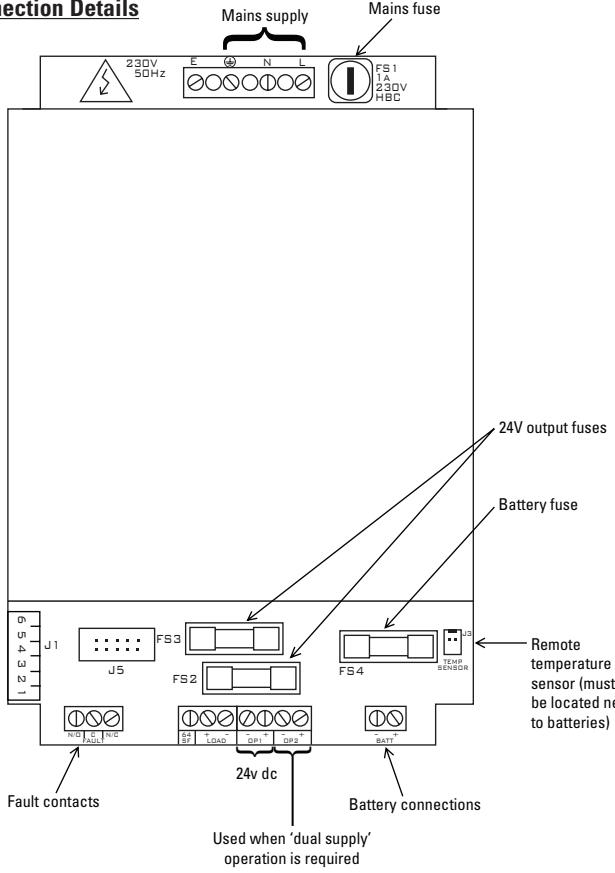
The design of the charger is such that mains must first be applied to the unit before the batteries will be capable of supplying the load. As such, if batteries only are connected to the charger, there will be no output at the load terminals until the mains is applied.

The 9000/BC3 power supply is also compatible with the Protec range of fire alarm control panels.

# Technical Specification

<b>Mains Input Voltage</b>	230V ac nominal $\pm 10\%$
<b>Mains Input Current</b>	0.5A maximum, fused at 1A (anti-surge)
<b>Load Outputs</b>	2 separate outputs, fused at 3.15A each
<b>Maximum Quiescent Load (Imax a)</b>	12Ah batteries - 2A. 18Ah batteries - 1.5A. 24Ah batteries - 1A
<b>Maximum Alarm Load (Imax b)</b>	3A
<b>Output Voltage</b>	25 – 29V dc with mains present, battery voltage when mains failed
<b>Output Ripple</b>	1V maximum peak to peak at full output load
<b>Battery Charge Voltage</b>	27.3V dc at 20°C, temperature compensated at $-40\text{ mV/}^{\circ}\text{C}$ fused at 5A
<b>Maximum Battery Internal Resistance</b>	1 ohm
<b>Battery Fault Levels</b>	Undervoltage - 22V dc (fault relay operates), Overvoltage - 28.5V dc (fault relay operates)
<b>Battery Low Voltage Cutoff</b>	18.5V dc (load removed from batteries)
<b>Battery Monitoring</b>	Compliant with EN54 Part 4
<b>Current Consumption From Batteries</b>	8mA maximum 30 seconds after mains failure, 0.5mA maximum when low volt disconnect active
<b>Environment</b>	0-50°C ambient (90% R.H non-condensing)
<b>Fault Output</b>	Changeover contacts rated at 5A 30V dc (non-inductive)
<b>Batteries</b>	Up to 24V 24Ah sealed lead acid (limited by 24 hour recharge to 85% capacity)

## Connection Details



## Current Protective Devices

- Current protective device within local isolator rated at 3A
- Current protective device within distribution board 6A Type B

Battery Life	Model	Enclosure Dimensions (mm)	Batteries
4 Year	9000/BC3/12	440(W) x 385(H) x 144(D)	2 x 12V 12Ah Batteries
4 Year	9000/BC3/18	440(W) x 385(H) x 144(D)	2 x 12V 18Ah Batteries
4 Year	9000/BC3/24	440(W) x 385(H) x 220(D)	2 x 12V 24Ah Batteries