

## 9000/BC8 Power Supplies

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



The Protec 9000/BC8 power supply is a self-contained supply designed to provide 24V dc control panel and charge associated batteries simultaneously.

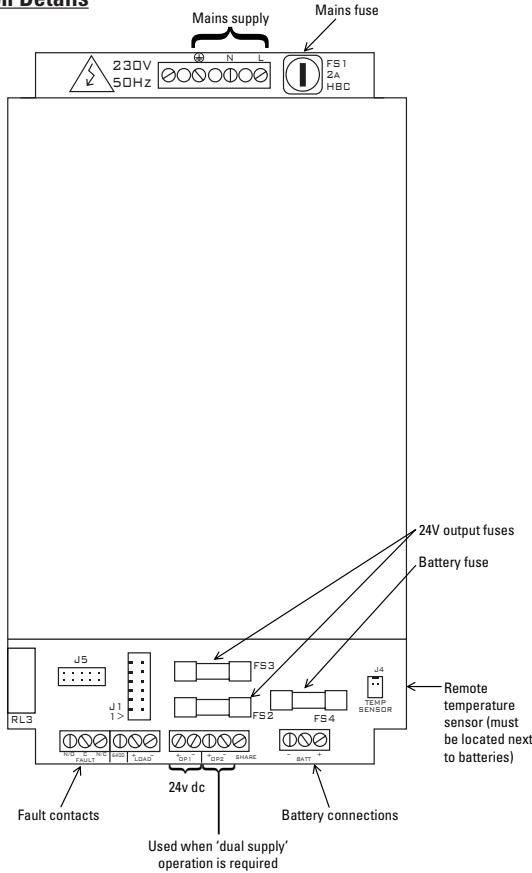
The charger uses power factor correction to ensure a near-unity power factor, and switch-mode technology to provide a lightweight and efficient unit. The design of the charger is such that mains must first be applied to the unit before the batteries will be capable of supplying the load. As such, if batteries only are connected to the charger, there will be no output at the load terminals until the mains is applied.

The 9000/BC8 power supply is also compatible with the Protec range of fire alarm control panels.

# Technical Specification

<b>Mains Input Voltage</b>	230V ac nominal. Range 195 – 253V ac. For use in Singapore, voltage range is restricted to 215 – 245V ac
<b>Mains Input Current</b>	1A maximum, fused at 2A (HBC type)
<b>Load Outputs</b>	2 separate outputs, fused at 10A each (quick blow type)
<b>Maximum Quiescent Load (Imax a)</b>	18 Ah batteries - 5A. 24Ah batteries - 5A. 38Ah batteries - 4A. 65Ah batteries - 3A
<b>Maximum Alarm Load (Imax b)</b>	8A
<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 mV/°C, fused at 13A
<b>Maximum Battery Internal Resistance</b>	0.6 ohms
<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>	16mA maximum 30 seconds after mains failure From Batteries 0.5mA maximum when low volt disconnect active
<b>Environment</b>	0-50°C ambient (95% R.H non-condensing)
<b>Fault output</b>	Changeover contacts rated at 5A 30V dc (non-inductive)
<b>Batteries</b>	Up to 24V 65Ah sealed lead acid (limited by 24 hour recharge to 85% capacity)

## Connection Details



Battery Life	Model	Enclosure Dimensions (mm)	Batteries
4 Year	9000/BC8/18	440(W) x 385(H) x 220(D)	2 x 12V 18Ah Batteries
4 Year	9000/BC8/24	440(W) x 385(H) x 220(D)	2 x 12V 24Ah Batteries
4 Year	9000/BC8/38	440(W) x 385(H) x 220(D)	2 x 12V 38Ah Batteries
4 Year	9000/BC8/65	532(W) x 980(H) x 200(D)	2 x 12V 65Ah Batteries