

9000/BC3 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/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.

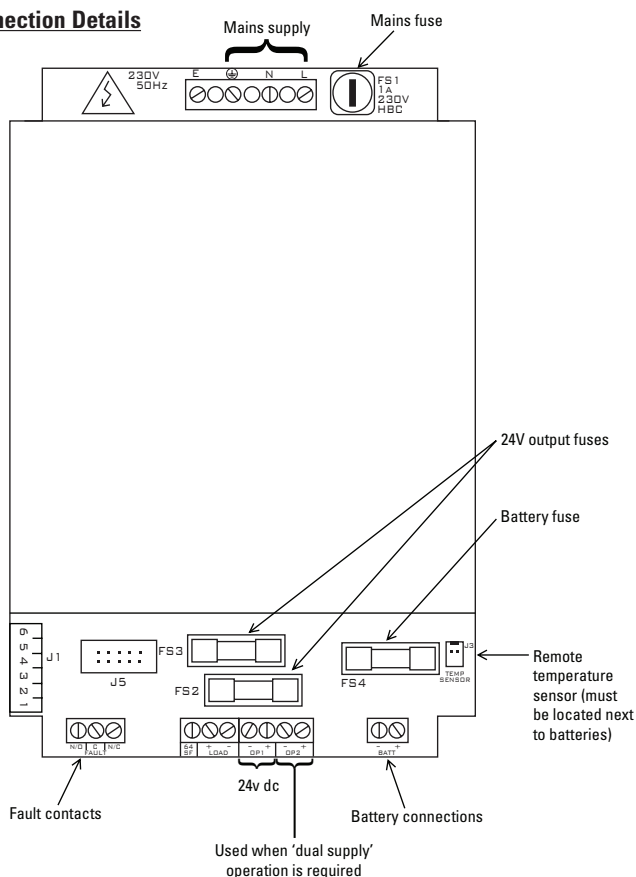
The design of the charger is such that mains must first be applied to the unit before the batteries will be capable of supplying the load. As such, if batteries only are connected to the charger, there will be no output at the load terminals until the mains is applied.

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

Technical Specification

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

Protec
Fire and Security Group Ltd

Company Policy is one of continuous improvement, we reserve the right to change specification without prior notice

Protec House, Churchill Way, Nelson, Lancashire, BB9 6RT

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Tel: +44 (0)1282 717171 Web: www.protec.co.uk Email: sales@protec.co.uk