

VIGILANT DBA POWER SUPPLY, 12V, 2A, 1926-1**1. Introduction**

The Vigilant 1926 DBA Power Supply is mainly intended for powering 2-wire SGD installations in DBAs but may also be used to power any fire alarm system or load where supervised 12 volt power is required.

It includes a defect (battery monitor) circuit with relay contact output which is usually wired in series with the defect input of one of the SGDs it powers.

2. Installation

- (i) Mount the cabinet and wire the mains as described in the Series 1948 PSU Instructions (LT0232) supplied with the unit.
- (ii) Route wires from SGD J3 ("+" and "-") 12V input through entrance hole in cabinet to DBA Power Supply screw terminal labelled 12 VOLT OUTPUT.
- (iii) Route wires from DBA "link-defect" input to DBA Power Supply screw terminals labelled BATTERY LOW DEFECT.
- (iv) If necessary, adjust the charger voltage (see Battery/Battery Charging Requirements section). Fit battery (12V 6.5Ah) and connect battery lead.

3. Battery/Battery Charging Requirements**WARNING**

For Brigade Connected Fire Alarm panels, NZS4512 requires that the battery has to be of sufficient capacity to supply the non-alarm load for 24 hours (or 28 hours for a sector system), followed by half an hour of alarm load.

Check the battery manufacturer's recommended battery float charge voltage. If this is in the range 13.6 to 13.8V then no adjustment need be made.

If the recommended float charge voltage is outside this range then, before fitting the battery, connect a digital volt meter across the battery leads and adjust the Output Adjust (PT1) pot on the PSU module to match the recommended float voltage.

Up to 12 Vigilant SGDs (draw 15mA maximum each) may be powered from a DBA Power Supply with 6.5Ah battery fitted, provided no other loads are connected.

4. Indicators & Controls

Information on the PSU's indicators and controls is detailed in the Series 1948 PSU Instructions (LT0232) enclosed.

Note for New Zealand use, link Lk2 must be removed to prevent Australian charger high/low faults signalling Defect.

Fitting Lk1 disables the charger's timers for continuous output (this does not comply with NZS4512).

5. Battery Low Supervision Relay

The PSU checks to see if the battery is disconnected or if the voltage is low.

It provides a set of normally-closed relay contacts that may be wired in series with the Defect circuit of one of the connected DBAs. These contacts open when the battery is disconnected or the voltage drops below approximately 12.1V, and are accessible at the screw terminals labelled BATTERY LOW DEFECT.

6. Specifications

Refer to the Series 1948 PSU Instructions (LT0232) enclosed.

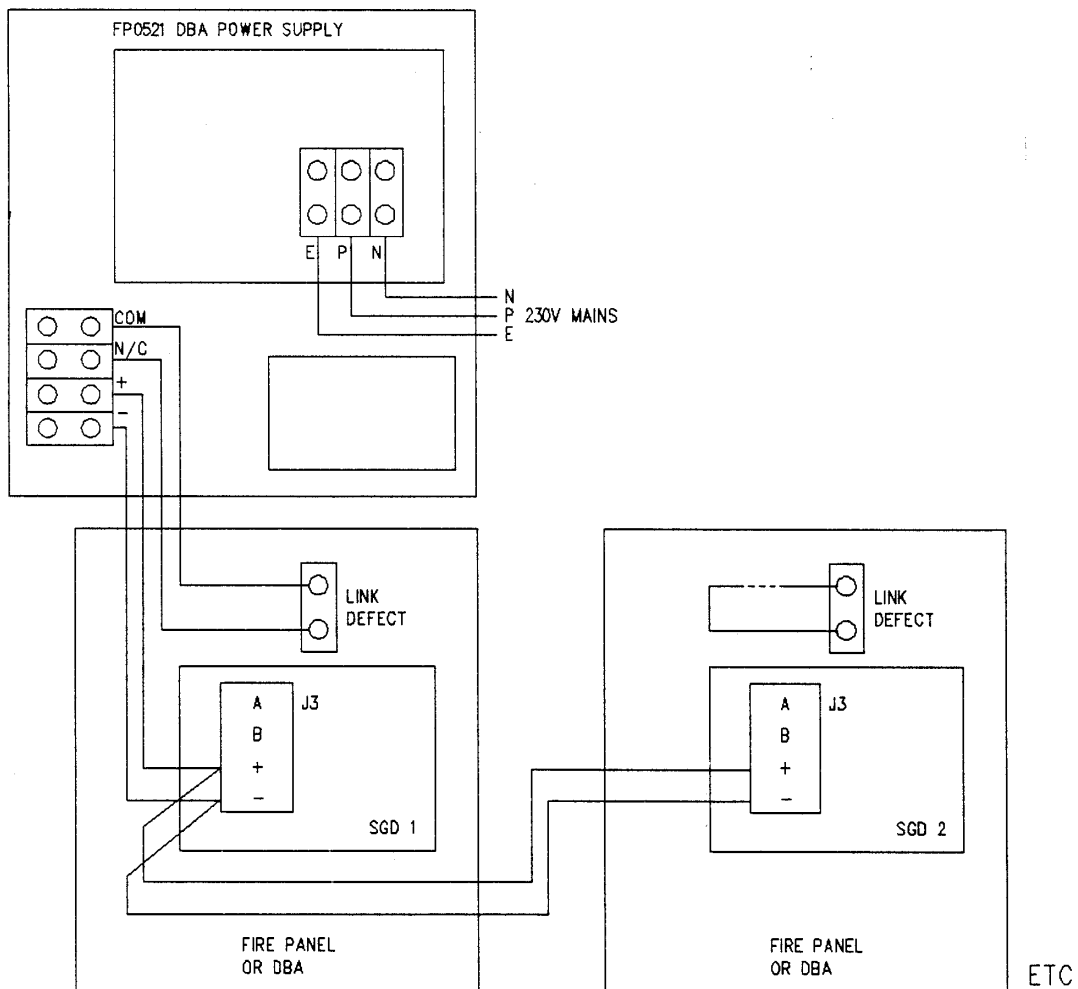


FIG 1
DBA POWER SUPPLY/SGD CONNECTION

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