



Standalone Power Supply

BPSU5

Features

- Fully supervised power supply
- Power supply supervision module complies with AS4428.5
- Local sounder for fault warning with mute facility
- Standard unit supplied with 5A switch mode power supply
- Clean changeover contacts for power supply fault and for power fail
- Meets the requirements of AS3000
- Space for 2x7AH or 2x12AH sealed lead acid batteries

Introduction

Brooks standalone power supply BPSU5 consists of 150 Watt switch mode power supply (6.25A @ 24V), display keypad and power supply supervision module mounted in a metal enclosure. The enclosure has sufficient space for two sealed lead acid backup batteries rated at 12V 7AH or 12AH. Larger batteries may require a different enclosure.

BPSU5 is equipped with a 3 way junction box for 240V termination and mains isolate switch.

Power Supervision

The power supply supervision module continuously monitors the power supply status and upon the detection of a fault condition will within one hour generate a power supply fault.

The power supply fault will be activated if one of the following occurs:

1. Loss of 240V mains power
2. Battery charger high, >28.2V

3. Battery charger low, <26.5V
4. 50% Battery capacity, battery voltage <24V
5. Battery disconnected
6. Auto battery test fail (latching fault LED)

Note: once the supply fault is rectified or the power restored, the fault LED will clear unless the fault occurred during the auto battery test.

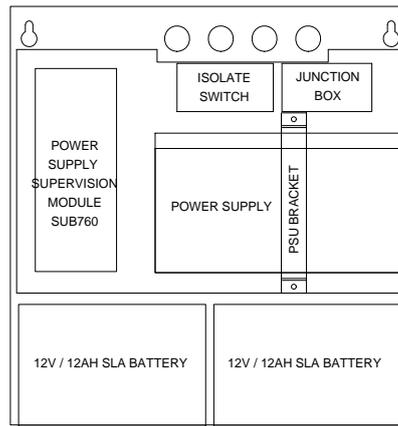
Auto Battery Test

The auto battery test is conducted approximately every 72 hours where the system quiescent load will be disconnected from the system power supply and placed on the battery for approximately one hour.

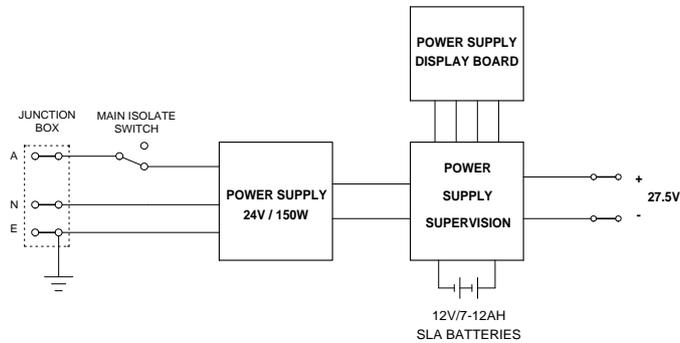
The test will not be conducted and will be terminated if one of the following exists:

- Battery missing or disconnected
- Battery fail or low (<50%) condition
- Charger high or low
- If auto inhibit input is activated during auto battery test, any supply fault occurs, the test will be terminated and the supply fault LED latches.

Modules Layout



Connection Diagram



Specifications

Primary Supply	85 – 265 V AC
Secondary Supply: Input Output	28V dc 27.5V dc
Current: Quiescent Active (fault)	50 mA 73 mA
Batteries 12V	2 x 7AH SLA battery 2 x 12AH SLA battery
Fault Output	Supply Fault Changeover contact 5A@24V Power fail changeover contact 5A@24v
Ambient Temperature: Operating Storage	0 to +50 °C -10 to +85 °C
Enclosure	1.5mm steel powder coated oyster Size 330H x 320W x125 D

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All technical features and data are subject to changes without notice, resulting from continuous development and improvement.

Product Leaflet	Date of issue	Revision / Date of revision
BPSU5	10/09/2008	REV 1