



VESDA[®] Power Supply Unit

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ISO 9001: 2000

International Standards
Certifications
QAC/R61/0051

Product Overview:

The VESDA[®] Power Supply Unit (PSU) incorporates a 1.5 amp switching regulated power supply with voltage monitoring and battery test facilities.

Two 12Vdc, 12AHr sealed lead acid batteries may be fitted in the PSU cabinet.

Up to 2.5 amps may be supplied to a load connected to the PSU.

A microprocessor monitors the battery voltage, and carries out the timing functions for the 24-Hour Auto Test.

Four indicator LEDs are mounted on the door of the PSU:

- The green **Mains ON** LED illuminates when the Mains supply is present
- The red **Overload-Recharge** LED illuminates when the charger load exceeds 1.3 amps
- The amber **Autotest** LED illuminates when the PSU performs the 24-Hour Auto Test

- The amber **Battery Fault** LED pulses to indicate faults associated with the system.

Change-over relay contacts provide non-latching fault indication to external equipment. The fault relay is normally energised when the PSU has no fault conditions, and releases to indicate a fault.

Operation of the on-board reset switch will clear any latched fault indications and initialise the 24-Hour Test Timer. Commencement of the 24-Hour Test can also be initiated through the action of the Reset switch.

Specifications:

| | | |
|---|--|-----------------------|
| Dimensions: | 230 x 350 x 110 | W x H x D mm |
| Weight: | 5kg | - excluding batteries |
| Nominal Output Voltage: | 27.3Vdc at 20°C | |
| Temperature Compensated Voltage Range: | 28Vdc at -10°C to 26.6Vdc at 50°C | |
| Power Supply Charger Current: | 1.5A | |
| Maximum Output Current: | 2.5A (with battery) | |
| Battery Type: | 2 x 12V, 12Ah sealed lead acid | |
| AC Input: | 240Vac ± 10%, 0.5A maximum @ 50Hz ± 1% | |
| DC Voltage Regulation: | Temperature Compensated Voltage ± 1% - no load to full load | |
| Automatic Battery Test: | 60 minute load test every 24 hours | |
| Controls: | Reset / Timer initialisation switch | |
| Front Panel Indications: | Mains ON LED | - Green |
| | Overload - Recharge LED | - Red |
| | Auto-Test LED | - Yellow |
| | Battery Fault LED | - Yellow |
| Defect Relay: | Normally energised. NO/NC contacts available | |
| Contact Rating: | 1A @ 24Vdc | |
| Operating Temperature Range: | -10°C to 50°C | |

Tested To:

- AS/NZS 3100:1997
- AS4428.5:1998
- AS/NZS 3548, Edition 3, 1995 (and Amendments 1 & 2, 1997)



Mounting:

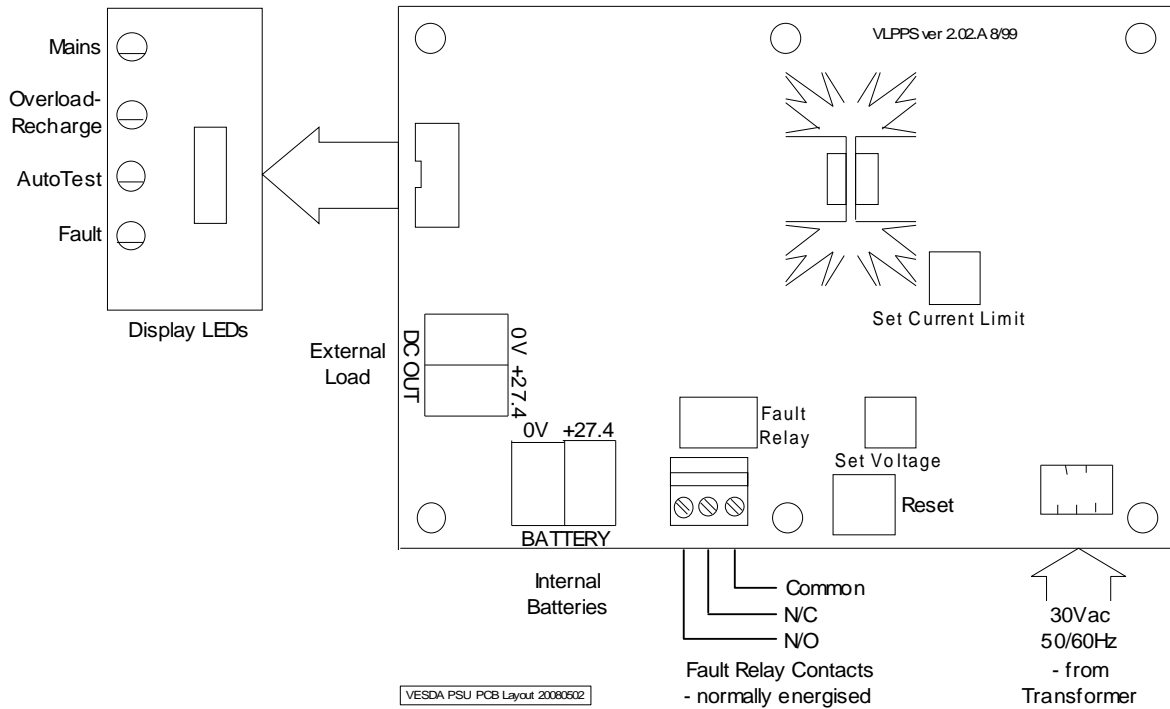
The power supply is designed to be wall-mounted. It should be mounted in a clean dry area, which provides natural convection between the unit and the wall and ensure the cooling slots are not restricted in any way.

Connections:

The unit is fitted with a termination block with an integral three-pole switch for connection of Mains wiring.

A 2-way terminal block, on the left side of the power supply as viewed from the front, provides the DC (or Load) output. Care should be taken to prevent reverse polarity connections between the power supply and load.

System Wiring:



Product Codes:

| Description | Code |
|---|------------|
| Vesda 24Vdc, 1.5A PSU with 24-Hour Battery Test | VESDAPSU |
| Vesda PSU Mounted in Mini (450 x 450 x 133mm) Panel | VESDA-MP |
| Vesda PSU Mounted in Large (600 x 450 x 133mm) Panel | VESDA-LP |
| Vesda PSU Mounted in Tall (900 x 450 x 133mm) Panel | VESDA-TP |
| Vesda PSU excluding Cabinet | VESDANOCAB |
| Vesda PSU Board, v2.13 (Standard & Fire Alarm Panel versions) | VESDA-PC |

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