

Auxiliary 24V-4A PSU

Head Office

Wellington

PO Box 35-063
Naenae
17 Eastern Hutt Rd
Wingate
Lower Hutt
Tel (04) 567-3229
Fax (04) 567-3644

www.pertronic.co.nz

sales@pertronic.co.nz
tech@pertronic.co.nz

Auckland Office

PO Box 15-867
New Lynn 0640
359 Onehunga Mall
Onehunga
Auckland
Tel (09) 633-0226
Fax (09) 633-0228



ISO 9001: 2000

International Standards
Certifications
QAC/R61/0051

Product Overview:

The **Pertronic Auxiliary 24V-4A PSU** incorporates a 4 Amp Switch-Mode Power Supply with voltage monitoring and battery test facilities.

Two 12 Volt, 38Ahr sealed lead acid batteries may be fitted in the **PSU** cabinet.

Up to 10 Amps may be supplied by the batteries and regulator to a load connected to the **PSU**.

A microprocessor monitors the battery voltage, and performs timing functions for the 24-Hour Auto test.

Three indicator LEDs are mounted on the door of the **PSU**:

- The green **Mains ON** LED illuminates when the Mains supply is present
- The yellow **Autotest** LED illuminates when the PSU performs the 24 Hour Auto-Test.
- The yellow **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. Release of the Fault relay is delayed for a period determined by the type of fault.

Operation of the on-board Reset switch (momentary action) initialises the 24 Hour Test Timer. Immediate commencement of the 24-Hour test can also be initiated through the action of the Reset switch.



Specifications:

Dimensions:	450 x 315 x 185	W x H x D mm
Weight:	8.35kg	- excludes batteries.
Material:	1.2mm mild steel, powder-coated beige	
AC Input:	200 - 260Vac, 0.8A maximum @ 50Hz ± 1%	
Turn-on Time	120ms at 230Vac 25°C	
Input Protection:	Internal 1A slow blow fuse	
Inrush Current:	Limited by internal thermistor	
Output Voltage:	27.4Vdc at 20°C	- nominal
Temperature coefficient:	0.145%/°C set for battery charging	
Charger Current:	3A Continuous	
	4A Peak	- 24 hours maximum duration
Maximum Output Current:	10A	- with battery (NZ)
Battery Type:	2 x 12V, ≤38Ah Sealed Lead-Acid (GelCell)	
Battery Test:	Automated 60 minute Load Test every 24 Hours	
Controls:	Reset / Timer initialisation switch	
Front Panel Indications:	Mains ON LED	- Green
	Auto-Test LED	- Yellow
	Battery Fault LED	- Yellow
Defect Relay:	Normally energised. NO/NC contacts available	
Contact Rating:	1A @ 24Vdc	
Operating Temperature Range:	0°C to 40°C	
Switch Mode 4A PSU Tested to:	AS/NZS 3100:1997	

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 ensures the cooling slots are not restricted in any way.

Connections:

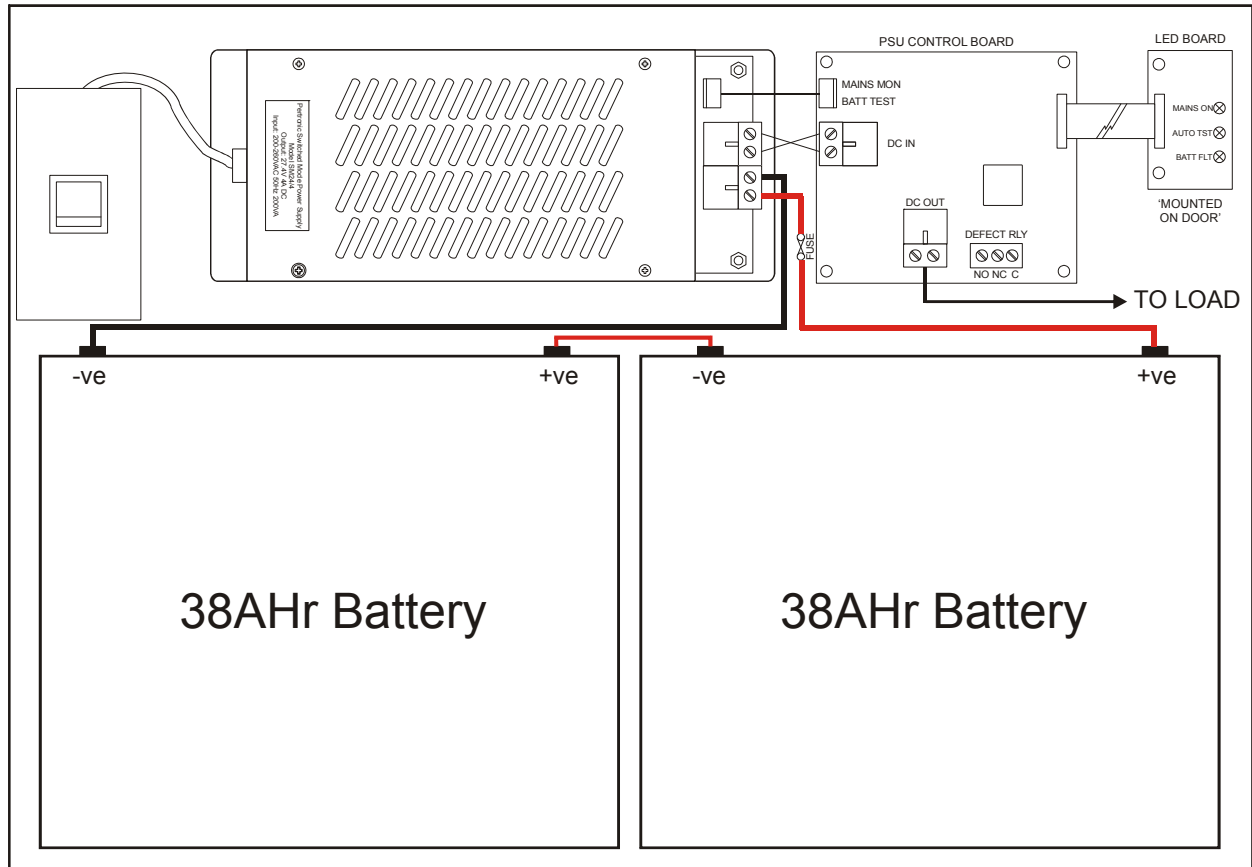
The PSU is fitted with a termination block with an integral three-pole switch for Mains wiring connection.

The Load Output (DC OUT) uses a 2 way terminal block on the bottom of the Monitor Board.

Care must be taken to prevent reverse polarity connections between the power supply and load.

The Fault relay provides clean NC-C-NO contacts rated 1A @ 24V.

System Wiring:



Auxiliary 24V-4A Power Supply Unit 20070814

Product Codes:

Description	Code
24V, 4A Monitored PSU in BATBOX 38	AUX24/4PSU
24V, 4A Switch Mode PSU	24/4SWMPSU
24 Volt SWPSU Auto Test Control Board	24VCB
Battery Box: 450 x 315 x 185 (W x H x D mm) - maximum Battery size: 38Ah	BATBOX38

Battery Dimensions: Typical – dimensions from Haze Battery

Battery Model	Amp/Hours	Dimensions: W x H x D mm : Kg	Terminals	Max I _{charge}
HZY12-12	12	150 x 97 x 98 (103) : 4.0Kg	D-T2	2.4A
HZY12-18	18	181 x 76 x 167 : 5.9Kg	C-M5	4.5A
HZY12-26	26	166 x 176 x 126 : 8.8Kg	C-M5	6.5A
HZY12-33	33	195 x 130 x 160 : 10.9Kg	B-M6	8A
HZY12-44	44	197 x 165 x 170 : 14.0Kg	C-M6	11A

PERTRONIC INDUSTRIES LTD

Head Office:

17 Eastern Hutt Rd, Wingate, Lower Hutt
Tel (04) 567-3229 Fax (04) 567-3644

www.pertronic.co.nz
sales@pertronic.co.nz
tech@pertronic.co.nz

Auckland Office:

359 Onehunga Mall, Onehunga, Auckland
Tel (09) 633-0226 Fax (09) 633-0228

'Pertronic' and 'Firetronix' are registered trademarks of Pertronic Industries Ltd