

# PB251 Series

220-330 WATTS DC UPS

## Features

- Ultra-low noise output
- Independent battery charging output
- DC output OK & battery OK alarms & LEDs
- Battery-LVD and alarm
- Over-temperature protection
- Battery fuse fail LED



## Specifications

### INPUT

Voltage:	190 to 264 vac, or 190 to 400VDC
Line regulation:	0.2% typical
Current:	1.4A maximum
Inrush current:	10A maximum
Frequency:	45 to 65 Hz

### OUTPUT

Voltage	See table
Current	See table
Load regulation	0.5% typical
Current limit type - load cct	Constant current
Current limit type - batt. cct	Constant current
Short circuit protection	Indefinite, auto-resetting
Over-voltage protection	17.5 to 20V latching (13.8Vdc output) 31.5 to 39V latching (27.6Vdc output)
Ripple & noise 100 MHz bandwidth	28mVp-p (13.8Vdc output) 55mVp-p (27.6Vdc output)

### ENVIRONMENTAL

Operating temperature	0 to 70°C ambient with derating, 5...90% relative humidity (non-condensing)
Over-temperature protection	Automatic & auto-resetting
Cooling requirement	Natural convection
Efficiency	80% minimum

## STANDARDS & APPROVALS

Safety	Complies with AS/NZS 60950, class 1, NSW Office of Fair Trading Approval N20602
EMC	Emissions comply with AS/NZS CISPR11, Group 1, Class B. Complies with ACA EMC Scheme, Safety & EMC Regulatory Compliance Marked
Isolation input - output input - ground output - ground	4242VDC for 1 minute 2121VDC for 1 minute 707VDC for 1 minute

## ALARMS & BATTERY FUNCTIONS

Converter ON/OK alarm	Indicated by voltage-free changeover relay contacts & green LED
Battery low (& fuse) alarm	10.2 to 12.6V for 12V battery, adjustable 20.4 to 25.2V for 24V battery, adjustable. Indicated by voltage-free changeover relay contacts & green LED: ON=BATT OK
Low voltage disconnect	9.6 to 12V for 12V battery, adjustable 19.2 to 24V for 24V battery, adjustable
Charger over-load protection	Auto-resetting electronic circuit breaker
Reverse polarity protection	Internal battery fuse
Battery to load voltage drop	0.2 to 0.25V typical

## MECHANICAL

Chassis mount case size	264 L x 172 W x 67 H mm
CM case size with heatsink	264 L x 186 W x 67 H mm
Rack mount size	232 D x 19" W x 2RU H
Weight	1.9 kg
Weight with heatsink	2.1 kg
Weight (rack mounted version)	5.5 kg

## Selection Table

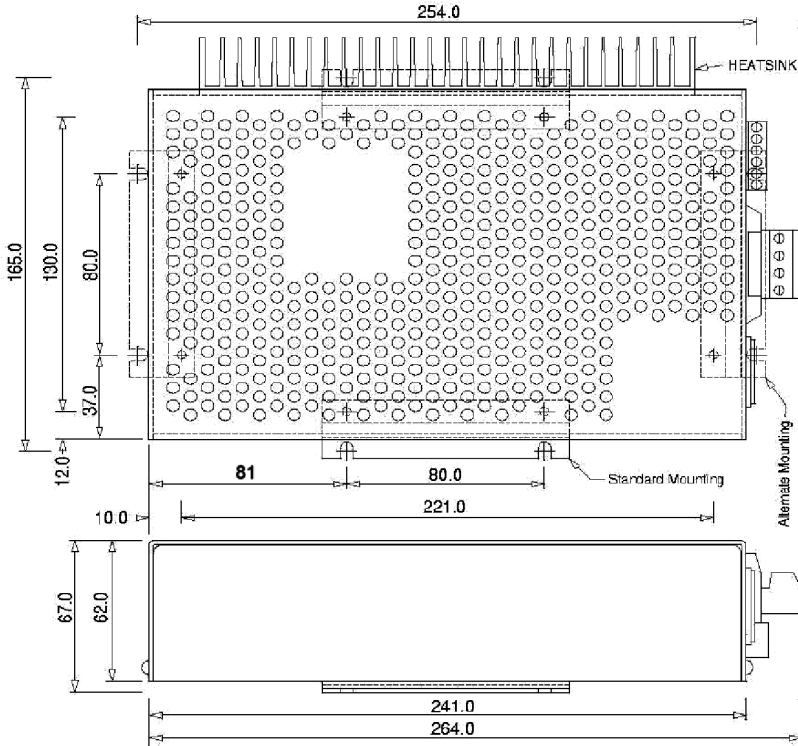
MODEL NUMBER	VDC	OUTPUT		OUTPUT POWER
		I <sub>LOAD</sub>	I <sub>BATT</sub>	
PB251-12CM	13.8V	16A	2A	220W
PB251-12CM-H	13.8V	20A	2A	275W
PB251-24CM	27.6V	11A	2A	300W
PB251-24CM-H	27.6V	12A	2A	330W
PB251-12RML	13.8V	20A	4A	275W
PB251-12B	13.8V	20A	4A	275W
PB251-24RML	27.6V	12A	2A	330W

Note: Non standard battery charging current available on request. ie PB251-12CM-H-10 for 10A.

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330 WATTS DC UPS

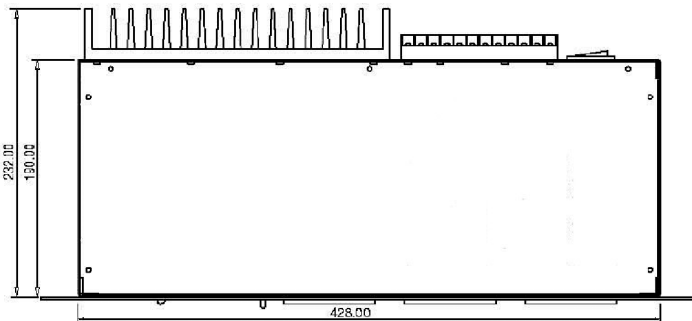
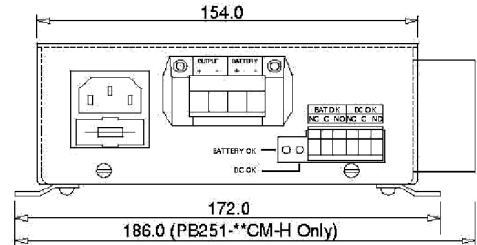
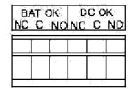
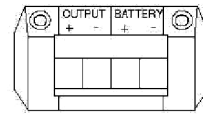
## Technical Illustrations



### PB251-\*\*-CM (-H) MECHANICAL OUTLINE

**NOTES:**

1. Mounting Centres: Suitable for M4 Hardware  
Standard: 165 x 80mm  
Alternate: 254 x 80mm
2. M3 threaded holes on bottom of base  
Standard: 130 x 80mm centres  
Alternate: 221 x 80mm centres
3. AC Mains: 10A Class 1 IEC60320 power inlet
4. Output and Battery: 4W Pluggable Screw Terminal Block  
Suitable for up to 4 sq.mm wire
5. Alarms: 6W Pluggable Screw Terminal Block  
Suitable for up to 1.5sq.mm wire

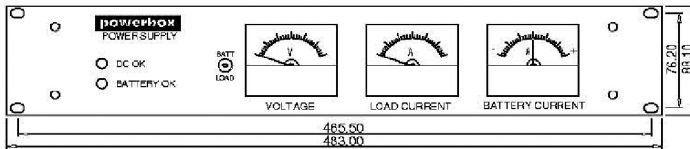


### PB251-\*\*-RML & -12B MECHANICAL OUTLINE

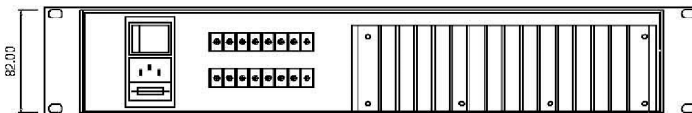
**NOTES:**

1. 2RU x 19" rack enclosure per IEC297
2. Mounting slots are suitable for M6 hardware
3. Input connector is a 10A Class 1 IEC60320 inlet
4. 2 meter IEC mains cord with Australian plug is supplied with unit
5. PB251-12B alarm terminal is DB25 female
6. PB251-12B output and battery connector is Hirose pn. HS28R-4A  
Mating connector is Hirose pn. HS2BP-4A (not supplied)
7. PB251-\*\*-RML alarm and output terminals are M3.5 screws  
Suitable for ring or fork lugs up to 8mm wide

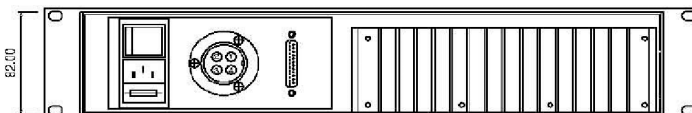
Top View



Front View

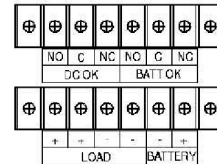


Rear View (PB251-\*\*-RML)

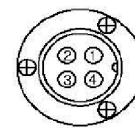


Rear View (PB251-12B)

### PB251-\*\*-RML ALARM AND OUTPUT TERMINALS



### PB251-12B OUTPUT & BATTERY CONNECTOR



- PIN1: +OUTPUT
- PIN2: -OUTPUT
- PIN3: +BATTERY
- PIN4: -BATTERY

### PB251-12B ALARM CONNECTOR



- PIN1: COMMON
- PIN6: DC OK (NC)
- PIN16: BATTERY OK (NC)