

# PB251-RM Series

275-330 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 225 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)
ENVIRONMENT	
Operating temperature	0 to 70°C ambient with derating, 5 to 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 4242VDC for 1 minute input - ground 2121VDC for 1 minute output - ground 707VDC for 1 minute

ALARMS & BATTERY FUNCTIONS	
Converter ON/Ok alarm	Indicated by voltage-free changeover relay contacts & green LED display
Green LED	ON=PSU OK
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 4V 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	
Rack mount size	232 D x 19" W x 2RU H
Weight (rack mounted version)	5.5 kg

## SELECTION TABLE

MODEL NUMBER	OUTPUT		OUTPUT	
	VDC	ILOAD	IBATT	POWER
PB251-12RML	13.8V	20A*	4A	275W
PB251-12B	13.8V	20A*	20A**	275W
PB251-24RML	27.6V	12A*	2A	330W
PB251-24B	27.6V	12A*	12A**	330W

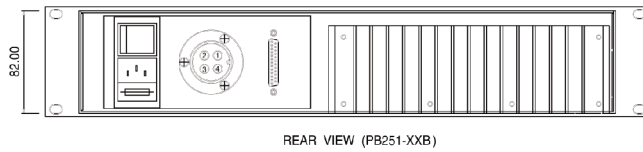
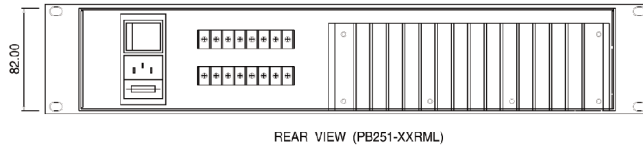
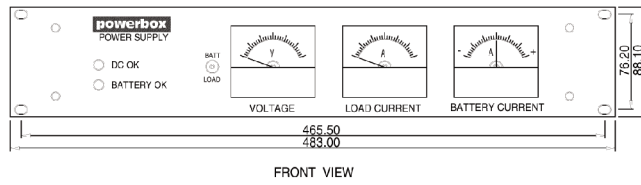
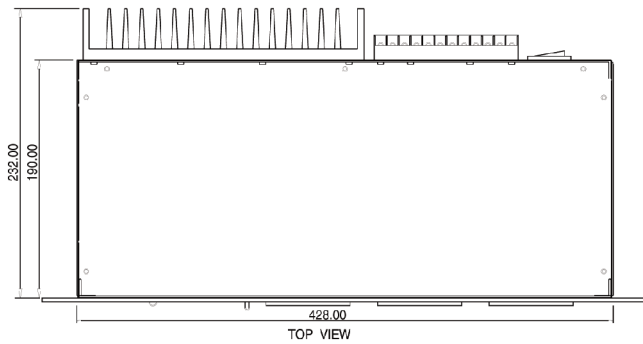
**NOTE:** Non standard battery charging current available on request ie. PB251 - 12RML-10 for 10A charging current.

\* Sum of load + battery charging current.  
\*\* Battery charging circuit set to maximum.

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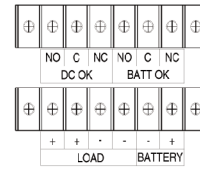
## TECHNICAL ILLUSTRATIONS



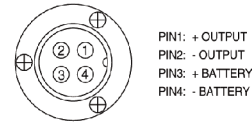
### PB251-XXRML & -XXB MECHANICAL OUTLINE

- NOTES:
- 2RU x 19" rack enclosure per IEC297
  - Mounting slots are suitable for M6 hardware.
  - Input connector is a 10A Class 1 IEC60320 inlet.
  - 2 meter IEC mains cord with Australian plug is supplied with unit.
  - PB251-XXB alarm terminal is DB25 female.
  - PB251-XXB output and battery connector is Hirose pn. HS28R-4A. Mating connector is Hirose pn. HS28P-4A (not supplied).
  - PB251-XXRML alarm and output terminals are M3.5 screws suitable for ring or fork lugs up to 8 mm wide.

#### PB251-XXRML ALARM AND OUTPUT TERMINALS



#### PB251-XXB OUTPUT & BATTERY CONNECTOR



#### PB251-XXB ALARM CONNECTOR

