PB256 Series

138 WATTS DC UPS

Features

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



Specifications

INPUT

Voltage	190...264 vac, or 190...400VDC
Line regulation	0.2% typical
Current	3A maximum
Inrush current	15A on cold start
Frequency	45 to 65 Hz

OUTPUT

Voltage	See table
Current	See table
Load regulation	2% typical
Current limit type (Load circuit)	Constant current > LVD volts Foldback & hiccup < LVD volts
Current limit type (Battery circuit)	Constant current
Short circuit protection	Indefinite, auto-resetting
Over-voltage protection	15.5 to 19.5 V latching (13.8Vdc output) 31.5 to 39 V latching (27.6Vdc output)
Ripple & noise	25 mVp-p (13.8Vdc output) 45mVp-p (27.6Vdc output)

ENVIRONMENTAL

Operating temperature & humidity	0 to 50^{O}C ambient with derating; 5 to 90% relative humidity (noncondensing)
Over-temperature protection	Automatic & auto-resetting
Cooling requirement	Natural convection
Efficiency	80% minimum

STANDARDS & APPROVALS

Safety	Complies with AS/NZS 60950, class 1
EMC	Emissions comply with AS/NZS CISPR11, Group 1, Class B. Complies with ACA EMC Scheme, C-Tick
Isolation input - output input - ground output - ground	4242VDC for 1 minute 2121VDC for 1 minute 707VDC for 1 minute

ALARMS & BATTERY SPECIFIC FUNCTIONS

Charger output OK alarm	Indicated by voltage-free changeover relay contacts & green LED: ON=OK
Battery low alarm	V_{BATT}< 11.3V $_{12V\ BATT}$ < 22.6 $V_{24V\ BATT}$ Indicated by voltage-free changeover relay contacts & green LED: ON=OK
Low voltage disconnect:	10.8V (Typical for 12Vdc battery) 21.6V (Typical for 24Vdc battery)
Battery over-load protection	Electronic circuit breakerauto-reset
Reverse polarity protection	Internal fuse
Battery to load voltage drop	0.4 V (13.8V output) 0.2 V (27.6V output)

MECHANICAL

Case size	230 L x 93 W x 46 H (mm)
Weight	850g

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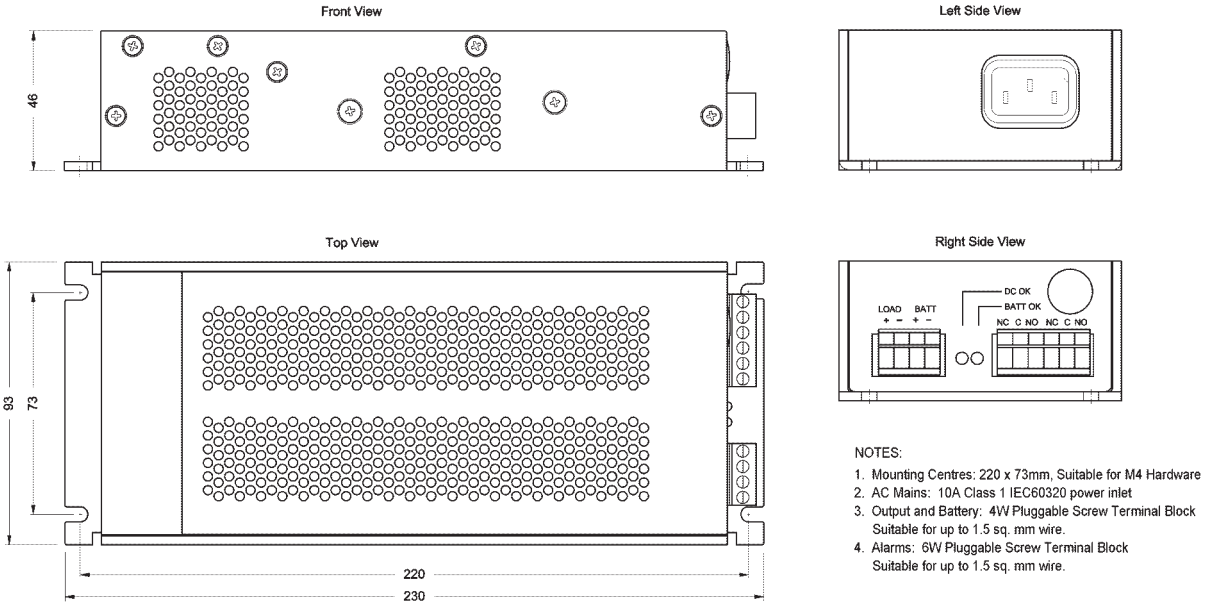
Selection Table

MODEL NUMBER	OUTPUT			OUTPUT
	VDC	I_{LOAD}	I_{BATT}	POWER
PB256-1210CML	13.8V	8A	2A	138W*
PB256-2405CML	27.6V	4A	1A	138W*

Options:
-CC = conformal coating
-T = temperature probe
-XX = non -standard battery charging current, i.e. PB256-1210CML-05 for 5A

* Note: please refer to Derating Curve

Technical Illustrations



NOTES:
1. Mounting Centres: 220 x 73mm, Suitable for M4 Hardware
2. AC Mains: 10A Class 1 IEC60320 power inlet
3. Output and Battery: 4W Pluggable Screw Terminal Block Suitable for up to 1.5 sq. mm wire.
4. Alarms: 6W Pluggable Screw Terminal Block Suitable for up to 1.5 sq. mm wire.

