

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°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 | 4242VDC for 1 minute |
| input - ground | 2121VDC for 1 minute |
| output - ground | 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 | $V_{BATT} < 11.3V$ $_{12V BATT} < 22.6V$ $_{24V BATT}$ 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 breaker auto-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 POWER |
|---------------|--------|-------------------|-------------------|--------------|
| | VDC | I _{LOAD} | I _{BATT} | |
| PB256-1210CML | 13.8V | 8A | 2A | 138W* |
| PB256-2405CML | 27.6V | 4A | 1A | 138W* |

Options:

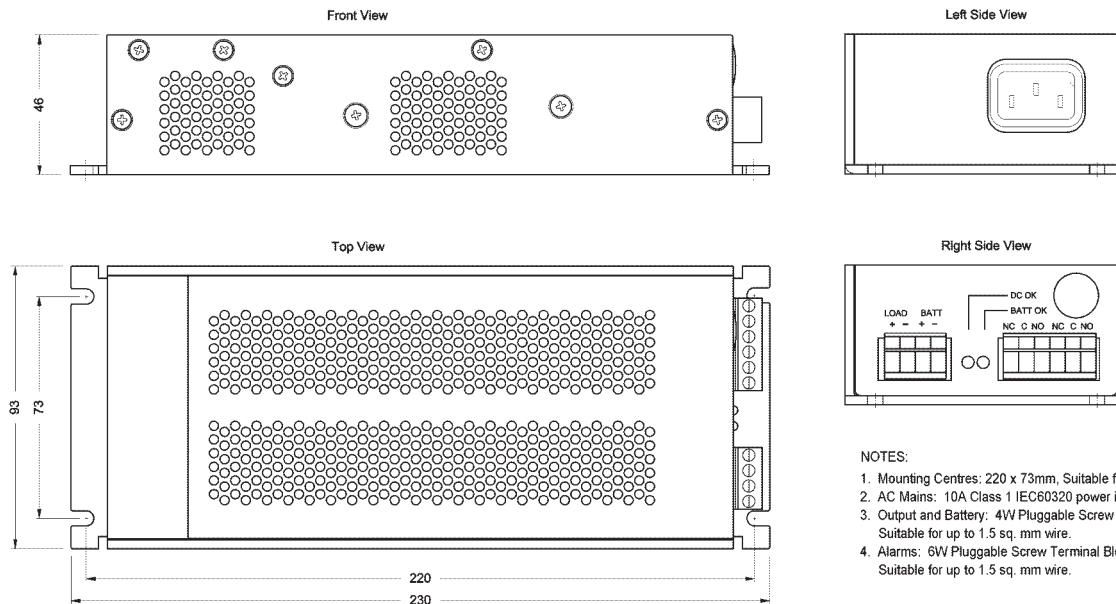
-CC = conformal coating

-T = temperature probe

-XX = non -standard battery charging current, i.e. PB256-1210CML-05 for 5A

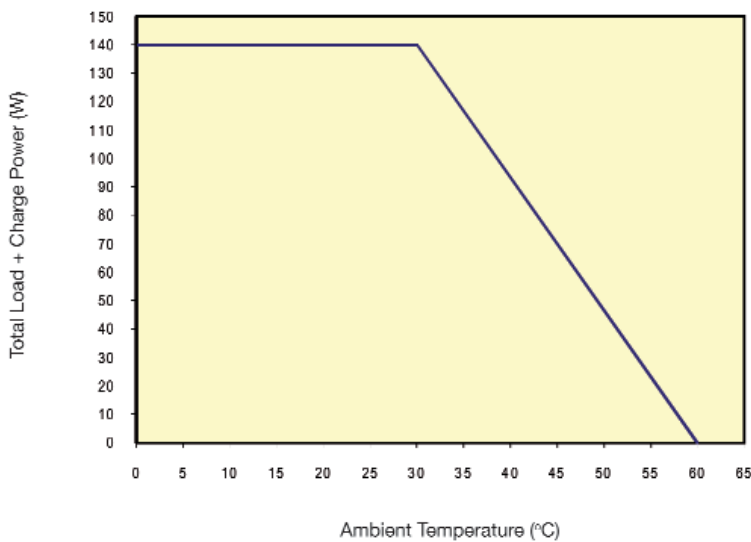
* Note: please refer to Derating Curve

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.

PB256-CML Derating Curves



PB256-1210CML/2405CML
Attached to 300x300x2mm Al-Plate