

# PB256 Series

138 WATTS - BATTERY CHARGER

## FEATURES

- 138W 12VDC & 24VDC
- Battery Backup System
- DC UPS Connectable
- Independent Load and Battery Current Limited
- Converter ON/OK alarm
- Battery Low Alarm
- Battery Low Voltage Disconnect
- Battery Over Load protection
- Conformal Coating option for wet areas
- C-Tick Approved
- INSTALLATION HANDBOOK AVAILABLE ON REQUEST



## SPECIFICATIONS

### INPUT

|                 |                             |
|-----------------|-----------------------------|
| Input Voltage   | 190-.264Vac, or 190-.400Vdc |
| Frequency       | 45 to 65 Hz                 |
| Input Current   | 3A maximum                  |
| Inrush current  | 15A on cold start           |
| Line Regulation | 0.2% typical                |

### OUTPUT

|                 |   |
|-----------------|---|
| Output Voltage  | 13.8Vdc, 27.6Vdc                                      |
| Output Power    | 138W, See power derating curve                        |
| Output Current  | 13.8Vdc: 10A<br>27.6Vdc: 5A<br>See Selection Table    |
| Load regulation | 2% typical  |
| Ripple & Noise  | 25 mVp-p (13.8Vdc output)<br>45mVp-p (27.6Vdc output) |
| Efficiency      | > 80%   |

### PROTECTION

|                                   |   |
|-----------------------------------|---|
| Current limit type (Load circuit) | Constant current > LVD volts<br>Foldback & hiccup < LVD volts                                       |
| 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)                     |
| Reverse polarity protection       | Internal fuse   |
| Isolation                         | Input to Output: 2.1Kvdc 1 min<br>Output to Ground: 2.1Kvdc 1 min<br>Output to Ground: 700Vdc 1 min |

### ENVIRONMENTAL

|                             |   |
|-----------------------------|---|
| Operating temperature       | 0 to 50°C ambient<br>For derating, see curve in technical illustrations |
| Humidity                    | 5 to 90% relative humidity (non-condensing)                             |
| Over-temperature protection | Automatic & auto-resetting  |
| Cooling requirement         | Natural convection  |
| Shock/Impact                | 50G 11mS once each along x, y and z axis                                |

### ALARMS AND BATTERY FUNCTIONS

|                              |   |
|------------------------------|---|
| Converter ON/OK alarm        | Indicated by voltage-free changeover relay contacts & green LED: ON=OK<br>< 11.3Vdc: 12V Battery  |
| Battery low alarm            | < 22.6Vdc: 24V Battery<br>Indicated by voltage-free changeover relay contacts & green LED: ON=OK. |
| Low voltage disconnect       | 10.8V (Typical for 12Vdc battery)<br>21.6V (Typical for 24Vdc battery)                            |
| Battery over-load protection | Electronic circuit breaker auto-reset   |
| Battery to load voltage drop | 0.2 V (27.6V output)  |

### OPTIONAL FEATURES

|                      |   |
|----------------------|---|
| Battery Charge Limit | Option BCL: Specify battery charge current based on battery size. |
| Heatsink             | Option H: Supplementary heatsink                                  |
| Conformal Coating    | Option CC: Tropic protection for moist areas                      |

### STANDARDS AND APPROVALS

|        |  |
|--------|--|
| C-Tick | AS/NZS CISPR11 Group 1 Class A.  |
| 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 |

### MECHANICAL

|                            |   |
|----------------------------|---|
| Input Connector            | AC Mains 10A Class 1<br>IEC60320 power inlet  |
| Load and Battery Connector | 4 way pluggable screw terminal block.<br>Suitable for up to 1.5mm <sup>2</sup> wire |
| Alarms Connector           | 6 way pluggable screw terminal block<br>Suitable for up to 1.5mm <sup>2</sup> wire  |
| Case size                  | 230 L x 93 W x 46 H (mm)  |
| Weight                     | 850g  |
| Security Cabinet           | WMBB-C-S Security Cabinet   |

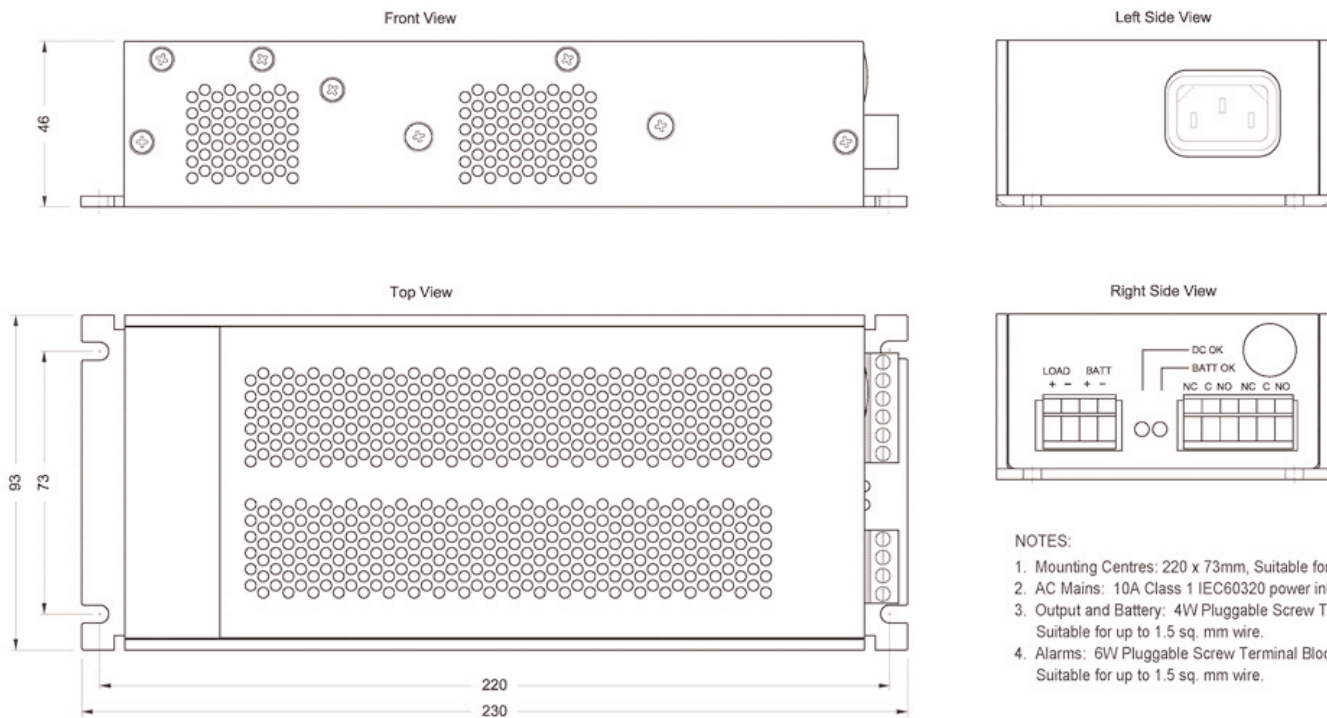
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## SELECTION TABLE

| MODEL NUMBER  | OUTPUT VOLTAGE | TOTAL CURRENT | BATTERY CURRENT | OUTPUT POWER |
|---------------|----------------|---------------|-----------------|--------------|
| PB256-1210CML | 13.8Vdc        | 8A            | 2A              | 138W         |
| PB256-2405CML | 27.6Vdc        | 4A            | 1A              | 138W         |

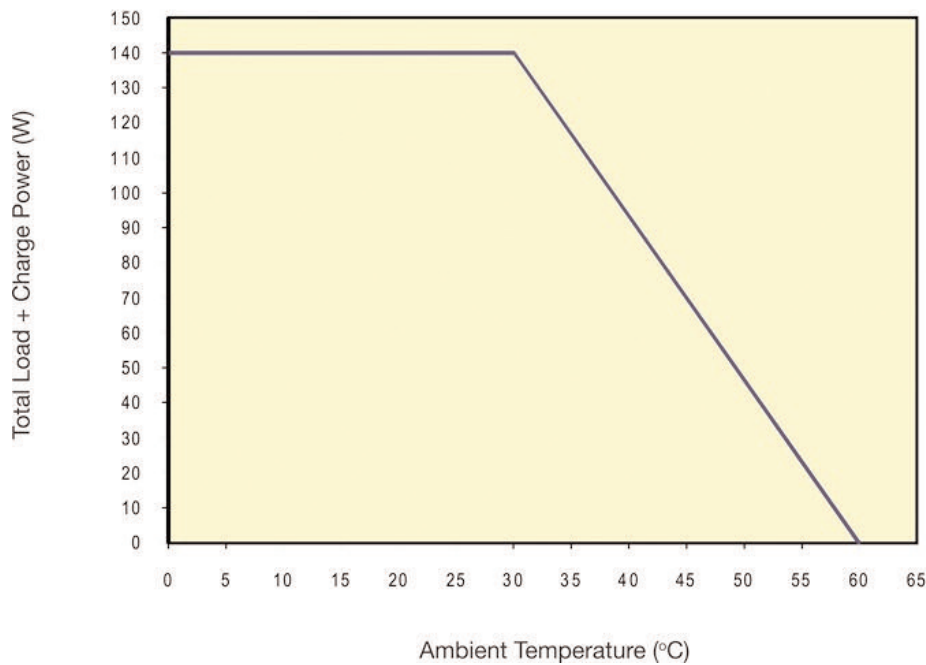
## TECHNICAL ILLUSTRATIONS



### 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