

# 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 27.6Vdc: 5A See Selection Table
Load regulation	2% typical
Ripple & Noise	25 mVp-p (13.8Vdc output) 45mVp-p (27.6Vdc output)
Efficiency	> 80%

### PROTECTION

Current limit type (Load circuit)	Constant current > LVD volts 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 Output to Ground: 2.1Kvdc 1 min Output to Ground: 700Vdc 1 min

### ENVIRONMENTAL

Operating temperature	0 to 50°C ambient 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 < 11.3Vdc: 12V Battery
Battery low alarm	< 22.6Vdc: 24V Battery 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
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 IEC60320 power inlet
Load and Battery Connector	4 way pluggable screw terminal block. Suitable for up to 1.5mm <sup>2</sup> wire
Alarms Connector	6 way pluggable screw terminal block 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

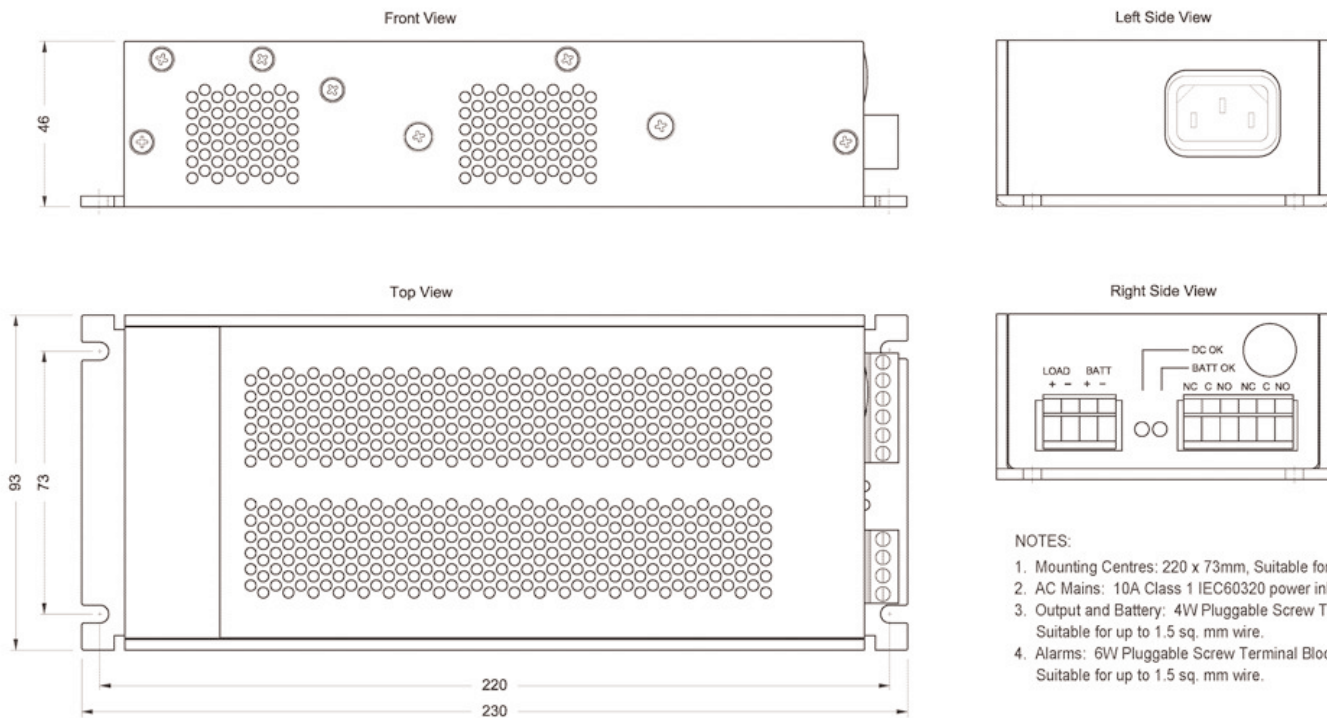
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## SELECTION TABLE

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

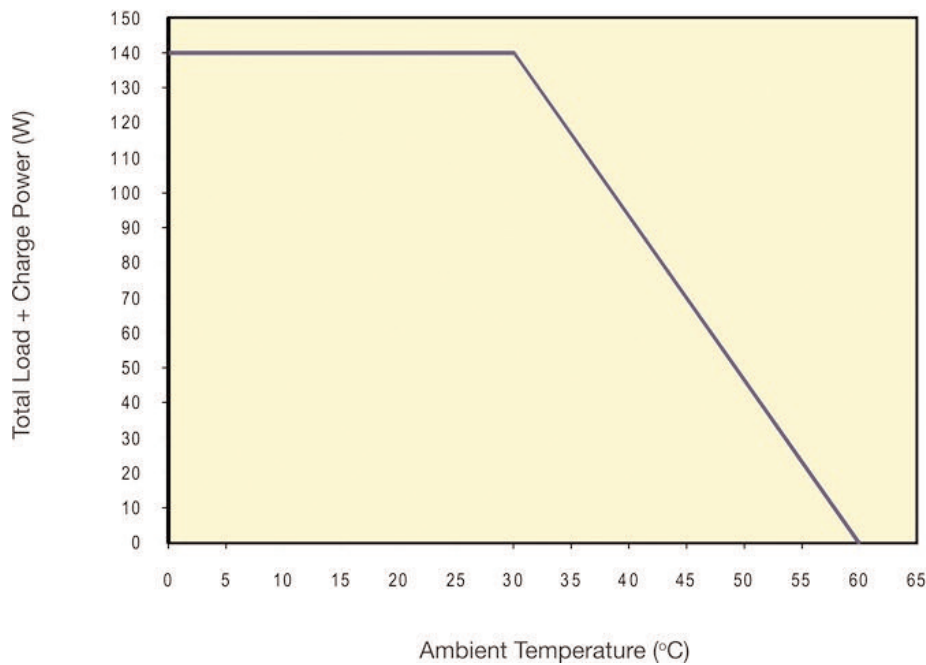
## TECHNICAL ILLUSTRATIONS



### 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