

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

| MODEL | | PB256-1210CML | PB256-2405CML |
|--|--------------------------------------|------------------------------------|------------------------|
| INPUT | Voltage [V] | AC190 - 265 1ø or DC190 - 400 | |
| | Current [A] | 1.4 max. | 1.4 max. |
| | Frequency [Hz] | 50/60 (45 - 65) | |
| | Efficiency [%] | 80 min. | |
| | Inrush current [A] | 15 max. (cold start) | |
| OUTPUT (AC Mains Operation) | Voltage [VDC] | 13.8 | 27.6 |
| | Total Output Current [A]*2 | 8.0 / 10.0*3 | 4.0 / 5.0*3 |
| | Total Output Current Limit [A]*2 | 11.2 typ. | 5.9 typ. |
| | Battery Charging Current Limit [A]*4 | 2.0 typ. | 1.0 typ. |
| | Line Regulation [%] | 0.2 typ. | |
| | Load Regulation [%] | 0.2 typ. | |
| | Ripple [mVp-p]*3 | 25 max. | 45 max. |
| | Noise [mVp-p]*3 | 20 max. | 40 max. |
| | Overvoltage Shutdown | 15.5 - 19.5 (Latching) | 31.5 - 39.0 (Latching) |
| | Output Short Circuit Protection | Indefinite (Autoresetting) | |
| Battery Charger Short Circuit protection | Indefinite (Autoresetting) | | |
| OUTPUT (Battery Operation) | Overtemperature Limit [°C]*6 | 110 typ. (Autoresetting) | |
| | Voltage Drop Battery to Output [V] | 0.4 typ. | 0.2 typ. |
| | Low Voltage Disconnect [V] | 10.8 typ. | 21.6 typ. |
| | Output Overload Protection | Battery Electronic Circuit Breaker | |
| | Battery Reverse Polarity Protection | Internal Fuse | |

| MODEL | | PB256-1210CML | PB256-2405CML |
|------------------------|-----------------------------|---|---------------|
| DISPLAYS AND ALARMS | DC OK | LED (Green) ON=OK, Voltage-free Changeover Contact (32V,1A) Alarm on loss of mains, failure of AC/DC Converter and tripping of overtemperature limit | |
| | BATTERY OK | LED (Green) ON=OK, Voltage-free Changeover Contact (32V,1A) Alarm on battery low voltage or on failure of battery fuse. | |
| | Alarm Voltage (Falling) [V] | 11.3 | 22.6 |
| ISOLATION | Input - Output | 4242 VDC, 1 minute | |
| | Input - Ground | 2121 VDC, 1 minute | |
| | Output - Ground | 707 VDC, 1 minute | |
| SAFETY AND EMC | Safety | AS/NZS 60950, Class I CAUTION NEUTRAL FUSING | |
| | EMC | Complies with ACA EMC Scheme - C-Tick Emissions Comply with AS/NZS CISPR11 Group1, Class B | |
| ENVIRONMENT AND OTHERS | Operating Temp And Humidity | 0 to 60°C, 5 to 90%RH (Non condensing) (Refer to DERATING CURVE) | |
| | Case Size / Weight | 230 x 93 x 46mm (LxWxH) / 850g | |
| | Cooling Method | Natural Convection | |

*1 WARNING: Do not apply voltages higher than the output voltage to the unit output or serious damage to the unit can occur!

*2 Note: Sum of load + battery charging current; example 2A charging + 8A load = 10A

*3 To operate at maximum output current, these models must be attached to a heatsink (300 x 300 x 2mm Aluminum plate or equivalent heatsink).

*4 This feature limits battery charging current but not load current.

*5 Using a 20MHz oscilloscope at the output terminals.

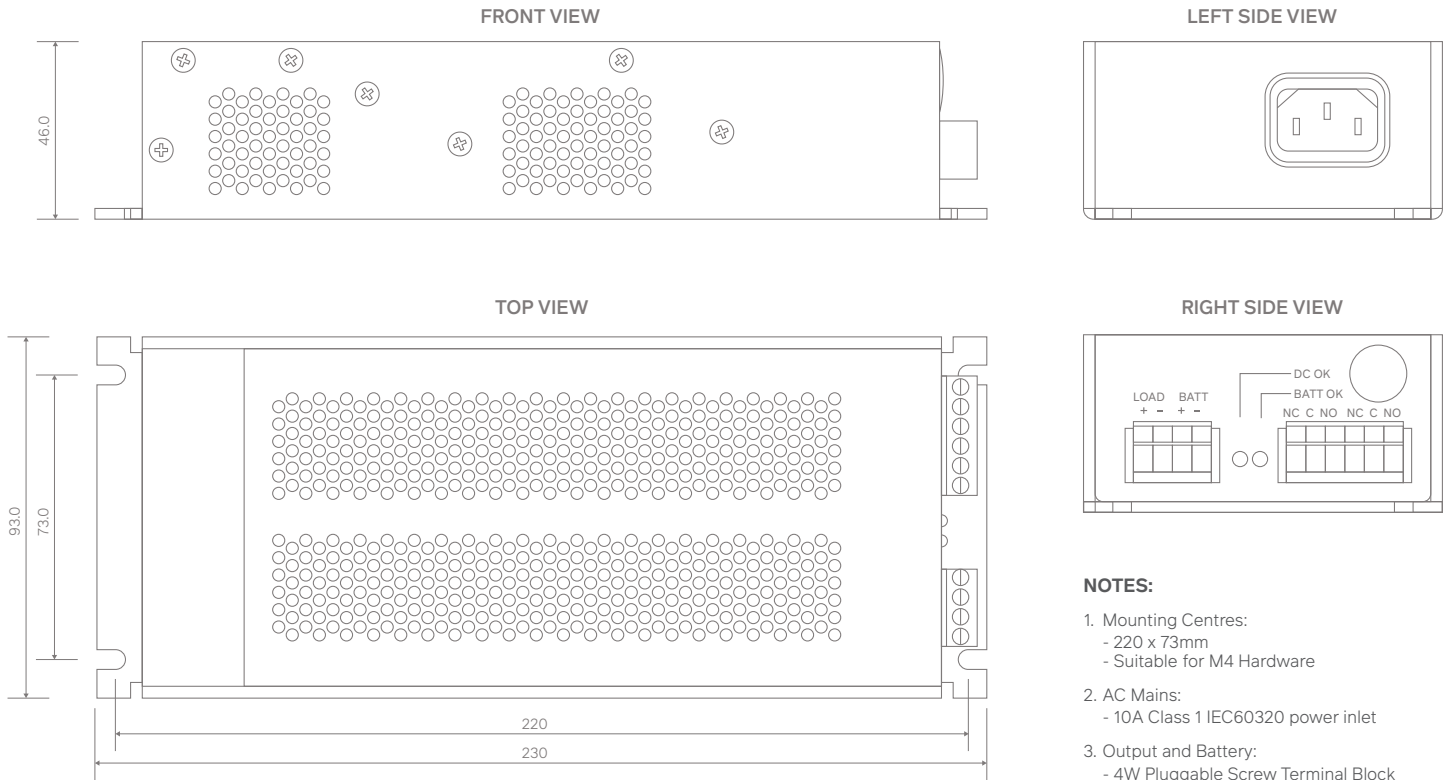
SELECTION TABLE

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

PB256 Series:

138 Watts - Battery Charger

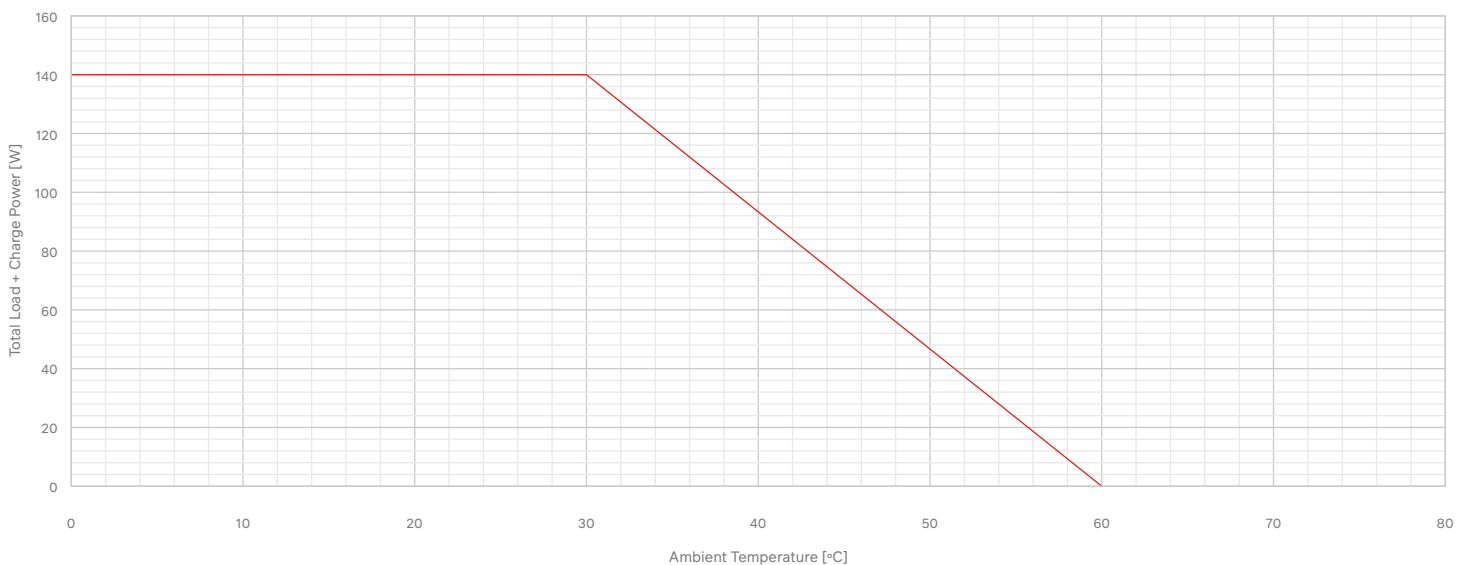
TECHNICAL DRAWINGS



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 Series Derating Curve



PB 256-1210CML/2405CML
Attached to 300x300x2mm Al-Plate