

PB256 Series:

138 Watts - Battery Charger / DC UPS



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)	
	Overtemperature Limit [°C]*6	110 typ. (Autoresetting)	
OUTPUT (Battery Operation)	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	

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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

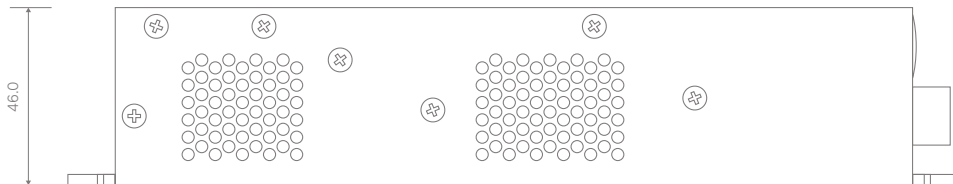
MODEL	OUTPUT VOLTAGE	TOTAL CURRENT	BATTERY CURRENT	OUTPUT POWER
PB256-1210CML	13.8Vdc	10A	2A	138W
PB256-2405CML	27.6Vdc	5A	1A	138W

PB256 Series:

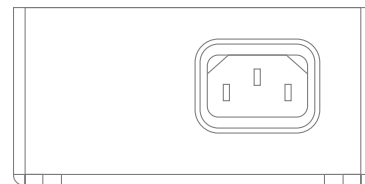
138 Watts - Battery Charger

TECHNICAL DRAWINGS

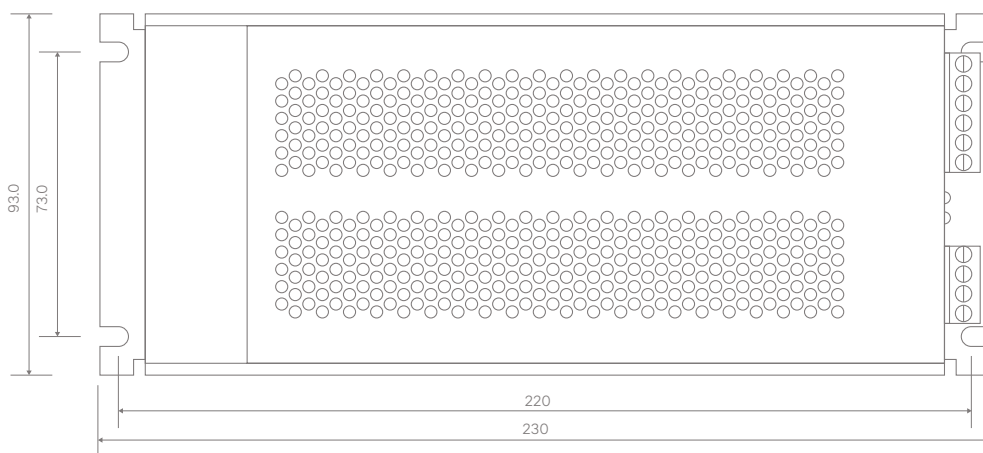
FRONT VIEW



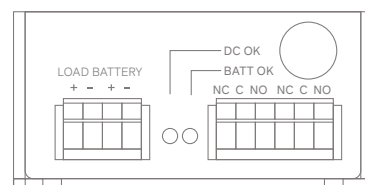
LEFT SIDE VIEW



TOP VIEW



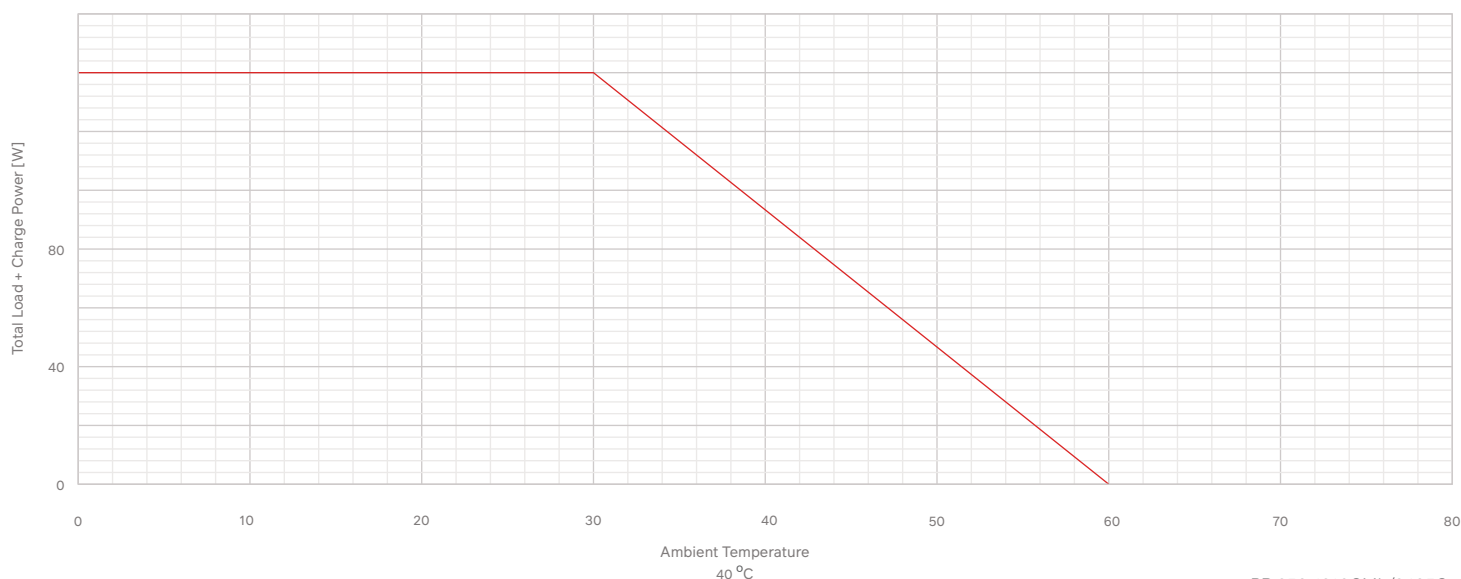
RIGHT SIDE VIEW



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/2405C-
ML Attached to 300x300x2mm