

PB251A-CM Series

BATTERY CHARGER SYSTEM

FEATURES

- 220 - 330W Battery Charger System
- DC UPS Connectable
- Constant Float Voltage & Current Limit
- Independent Battery Charging Output
- DC OK & Battery OK Alarms with Relays
- Battery Connected Test
- LVD - Battery Low Volts Disconnect
- Optional Battery Charge Current Limit
- Optional Network Connected
- Optional Battery Temperature Probe
- OPERATIONS INSTALLATION HANDBOOK AVAILABLE



SPECIFICATIONS

INPUT	
Input Voltage:	190 to 264Vac, or 225 to 400Vdc
Frequency:	45 to 65 Hz
Input Current:	1.4A maximum
Inrush current:	10A maximum
Line regulation:	0.2% typical

OUTPUT	
Output Voltage	13.8Vdc, 27.6Vdc
Output Current	13.8Vdc: 20A 27.6Vdc: 12A
Load regulation	0.5% typical
Ripple & noise 100 MHz bandwidth	28mVp-p (13.8Vdc output) 55mVp-p (27.6Vdc output)
Efficiency	> 80%

PROTECTION	
Current limit	Load circuit - Constant current Battery circuit - Constant current
Short circuit protection	Indefinite, auto-resetting
Over-voltage protection	17.5 to 20V latching (13.8Vdc output) 31.5 to 39V latching (27.6Vdc output)
Isolation	Input to Output: 4.2Kvdc 1 min Output to Ground: 2.1Kvdc 1 min Output to Ground: 700Vdc 1 min

ENVIRONMENTAL	
Operating temperature	0 to 70°C ambient Derating from full power at Ta=25°C to 0W at Ta=70°C at -2.22%/°C
Humidity	5 to 90% relative humidity (non-condensing)
Over-temperature protection	Automatic & auto-resetting
Cooling requirement	Natural convection

STANDARDS & APPROVALS	
C-Tick	AS/NZS CISPR11 Group 1 Class A.
Safety	Complies with AS/NZS 60950, class 1, NSW Office of Fair Trading Approval N20602
EMC	Emissions comply with AS/NZS CISPR11, Group 1, Class B. Complies with ACA EMC Scheme, Safety & EMC Regulatory Compliance Marked

ALARMS & BATTERY FUNCTIONS

DC OK alarm	Green LED : ON=OK voltage free change over relay contacts(32V,1A) Alarms on loss of AC mains power or failure of off-line AC/DC converter / battery charger
Battery OK alarm	Green LED : ON=OK voltage free change over relay contacts(32V,1A) Alarms on battery low voltage 11V, failure of battery fuse or battery disconnected. Alarm cancelled when fuse or battery replaced, or AC input restored
Battery low voltage disconnect (LVD)	10.2 to 12.6V for 12V battery, adjustable 20.4 to 25.2V for 24V battery, adjustable Indicated by voltage-free changeover relay contacts & green LED: ON=BATT OK
Low voltage disconnect	9.6 to 12V for 12V battery, adjustable 19.2 to 24V for 24V battery, adjustable
Charger over-load protection	Auto-resetting electronic circuit breaker
Reverse polarity protection	Internal battery fuse
Battery to load voltage drop	0.2 to 0.25V typical

OPTIONAL FEATURES

Battery Charging Limit	Option BCL: Factory set to maximum of the total rated output current. The BCL charging current based on A/H battery size and make of battery.
Heatsink	Option H: Supplementary heatsink
Network enabled	Option N: Internal network card in conjunction with PB251A becomes a network enabled device combining the benefits of SNMP V1, XML and embedded webpage.
Temperature compensation	Option T: 2.5m cable probe Option T5: 5m cable probe Float voltage set to 2.3V/cell at 25°C with compensation of 3.3mv/°C cell
Conformal Coating	Option CC: Tropic protection for moist areas

MECHANICAL

Input connector	IEC60320 inlet, 10A Class 1 2 meter IEC mains cord with Australian plug is supplied with each unit
Output/Battery connector	4 way pluggable screw terminal block Suitable for up to 4mm ² wire
Alarm terminal	6 way pluggable screw terminal block Suitable for up to 1.5mm ² wire
Case size	264 L x 172 W x 67 H mm
Case size with heatsink	264 L x 186 W x 67 H mm
Weight	1.9kg
Weight with heatsink	2.1kg
Rack mount option	Refer to PB251-RM Series

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SELECTION TABLE

MODEL NUMBER	OUTPUT VOLTAGE	TOTAL CURRENT	BATTERY CURRENT	OUTPUT POWER
PB251A-12CM	13.8V	16A	2A	220W
PB251A-12CM-H	13.8V	20A	4A	275W
PB251A-24CM	27.6V	11A	2A	300W
PB251A-24CM-H	27.6V	12A	2A	330W

TECHNICAL ILLUSTRATIONS

