

PB251A - RM Series

BATTERY CHARGER SYSTEM

FEATURES

- 220 - 330W Battery Charger System
- DC UPS Connectable
- Digital Display System
- Rack Mounting
- Constant Float Voltage & Current Limit
- Circuit Breakers & Alarm Relays
- Independent Battery Charging Output
- DC OK & Battery OK Alarms
- Optional LVD - Battery Low Volts Disconnect
- 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	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 40°C at 2.5%/°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 AND 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, failure of battery fuse or battery disconnected. Alarm cancelled when fuse or battery replaced, or AC input restored
Battery low voltage disconnect (LVD)	Low voltage disconnect 10.5V for 12V battery, 21V for 24V battery, adjustable 1.6 to 2.0V / cell all models
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

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.
Analogue meters	Option M: Load voltage, load current, battery charge and discharge.
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
Battery Capacity Test	Contact Powerbox for further information

MECHANICAL

Input connector	IEC60320 inlet, 10A Class 1 2 meter IEC mains cord with Australian plug is supplied with each unit
Output/Battery connector	PB251A-RML: M4 screw terminals PB251A-B: Hirose HS28R-4A. Mating connector is Hirose HS28P-4A (not supplied)
Alarm terminal	PB251A-RML: M3.5 screw terminals PB251A-B: DB25 female
Weight	5.5kg
Security Cabinet	WMBB-C-S Security Cabinet

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SELECTION TABLE

MODEL NUMBER	OUTPUT VOLTAGE	TOTAL CURRENT	BATTERY CURRENT	OUTPUT POWER	MECHANICAL
PB251A-12RML	13.8V	20A	4A	275W	Rack Mount / Screw terminals
PB251A-24RML	27.6V	12A	2A	330W	Rack Mount / Screw terminals
PB251A-12B	13.8V	20A	20A	275W	Rack Mount / Hirose connector
PB251A-24B	27.6V	12A	12A	330W	Rack Mount / Hirose connector

TECHNICAL ILLUSTRATIONS

