

# PB314A Series

## BATTERY CHARGER SYSTEM

### FEATURES

- 636 - 1056W PSU for Battery Backup
- 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
- Battery connected test
- Optional LVD - Battery Low Volts Disconnect
- Optional Network Connected
- Optional Battery Temperature Probe
- OPERATIONS INSTALLATION HANDBOOK AVAILABLE



### SPECIFICATIONS

INPUT	
Input Voltage	85-264Vac or 120-360Vdc
Frequency:	47 to 63 Hz
Input Current:	4.1A typical 200Vac
Inrush current:	40A typical cold start 200Vac
Line regulation	60mV maximum
OUTPUT	
Output Voltage	13.8Vdc, 27.6Vdc, 55.4Vdc
Output Power	624W - 1056W
Output Current	See Selection Table
Load regulation	1% typical
Ripple	160mVp-p maximum
Noise	180mVp-p maximum
Overvoltage shutdown	16.2 to 19.8V latching
Output short circuit protection	Indefinite (Autoresetting)
Battery charger short circuit protection	Indefinite (Autoresetting)
Load output protection	Thermal - Magnetic Circuit Breaker
Battery output protection	Thermal - Magnetic Circuit Breaker.
Efficiency	79% typical
PROTECTION	
Overvoltage shutdown	16.2 to 19.8V latching
Output short circuit protection	Indefinite (Autoresetting)
Battery charger short circuit protection	Indefinite (Autoresetting)
Load output protection	Thermal - Magnetic Circuit Breaker
Battery output protection	Thermal - Magnetic Circuit Breaker.
Isolation	Input - Output: 3KVac 1 min Input - Ground: 2KVac 1 min Output - Ground: 500Vac 1min
ENVIRONMENT	
Operating temperature	-20°C to +71°C Derating linearly from 50°C to 71°C to 50% power
Humidity	20-90% relative humidity (non condensing)
Cooling	Forced cooling - internal fan

### DISPLAY AND ALARMS

DC OK	LED Green On = OK, Voltage-free changeover contact (32V, 1A). Alarm on failure of AC/DC PSU and tripping of over temperature limit.
AC OK	Neon Green On = OK, Voltage-free changeover contact (32V, 1A). Alarm on mains fail.
Charger voltage OK alarm	LED Green On = OK, Voltage-free changeover contact (32V, 1A). Alarm on battery low voltage or on opening of battery circuit breaker.
Battery low voltage alarm	11.0V (12V), 22.0V (24V), 44.0V (48V)

### OPTIONAL FEATURES

Battery LVD disconnect	Option LVD: For 12V and 24V models, not available in 48V models.
Network enabled	Option N: Internal network card in conjunction with PB314A becomes a network enable device combining the benefits of SNMP V1, XML and an embedded webpage.
Temperature compensation	Option T: Temperature probe 2.5M cable Option T5: Temperature probe 5M cable Float voltage set to 2.3V per cell at 25°C with compensation of 3.3mV per cell
Hirose connector	Option H: Circular connector for load and battery output termination (Standard model "C" for Cage Clamp Terminals

### STANDARDS & APPROVALS

C-Tick	AS/NZS CISPR11 Group 1 Class A.
Safety	UL 60950 Class 1
EMC	Emissions comply with AS/NZ CISPR22 Class-B

### MECHANICAL

AC input socket	IEC320 fused / on off switch
Output termination	Cage clamp terminals (-C version)
Alarm relay contacts	DB25 socket
Load fault current protection	63A circuit breaker
Battery fault current protection	63A circuit breaker
Rack mount size	270 D x 19" W x 2RU H
Weight	5.0 kg

# PB314A Series

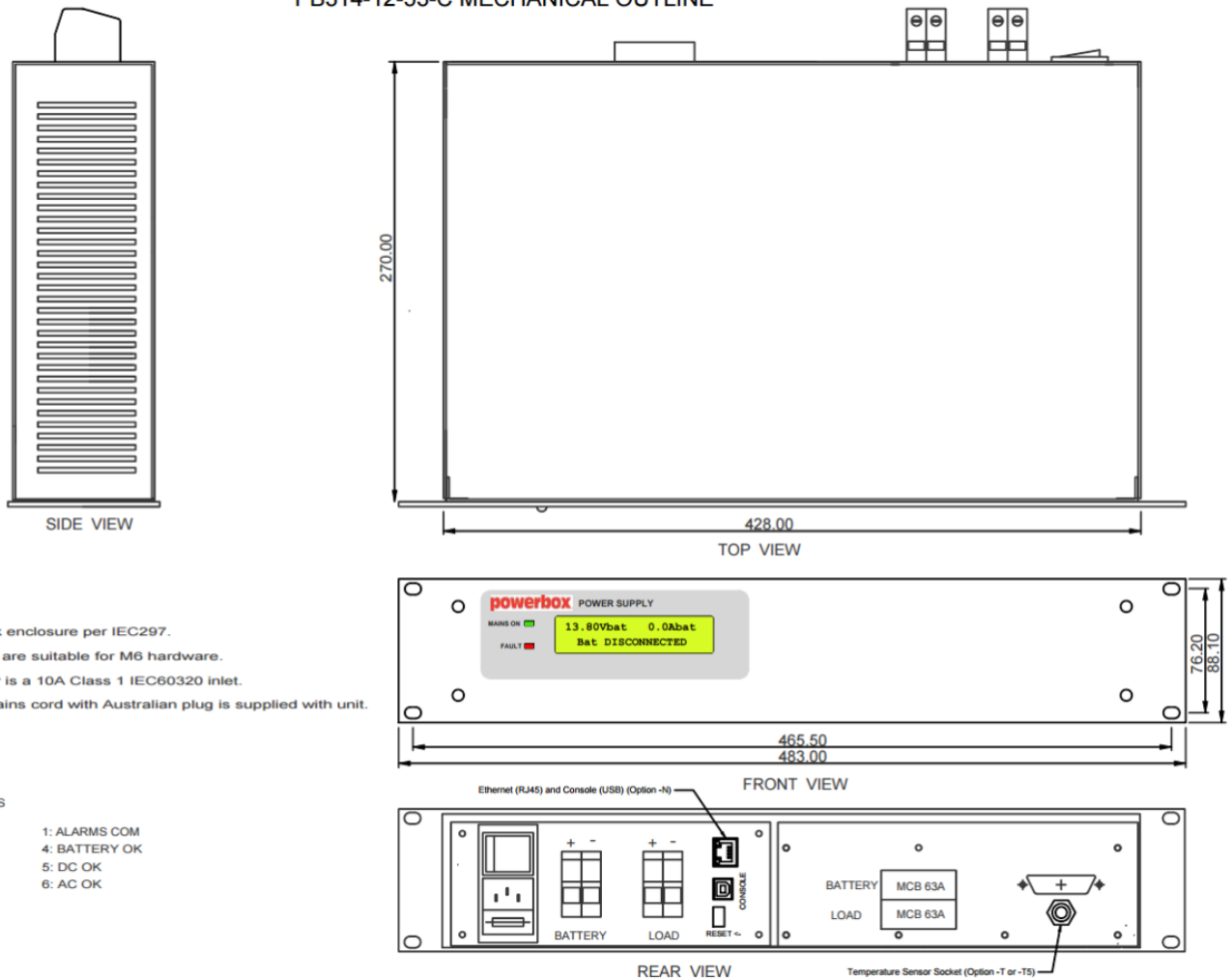
## BATTERY CHARGER SYSTEM

### SELECTION TABLE

MODEL NUMBER	OUTPUT VOLTAGE	LOAD CURRENT	LOAD PK CURRENT	BATTERY CHARGE CURRENT	OUTPUT POWER
PB314A-12-53-C-XXA	13.8Vdc	46A	53A	5 - 53A	636W
PB314A-12-88-C-XXA	13.8Vdc	76A	88A	10 - 88A	1045W
PB314A-24-27-C-XXA	27.6Vdc	23A	27A	2.5 - 27A	648W
PB314A-24-44-C-XXA	27.6Vdc	38A	44A	5 - 44A	1056W
PB314A-48-13-C-XXA	55.4Vdc	11A	13A	2.5 - 13A	624W
PB314A-48-22-C-XXA	55.4Vdc	19A	22A	2.5 - 22A	1056W

### TECHNICAL ILLUSTRATIONS

PB314-12-53-C MECHANICAL OUTLINE



NOTES:

1. 2RU x 19" rack enclosure per IEC297.
2. Mounting slots are suitable for M6 hardware.
3. Input connector is a 10A Class 1 IEC60320 inlet.
4. 2 metre IEC mains cord with Australian plug is supplied with unit.

ALARM CONNECTIONS

- DB25 SOCKET:
- 1: ALARMS COM
  - 4: BATTERY OK
  - 5: DC OK
  - 6: AC OK