

Battery Charger

**POWER
SOLVE**

PBP Series

144 Watt

3 Stage Battery Charger

www.powersolve.co.uk

Features

- Universal AC Input with Active PFC
- High Performance 3 Stage Charger
- Advanced 8 bit Microprocessor Control Circuit
- Reverse Polarity Protection by Fuse
- Ignition Protection
- Output Short Circuit Protection
- Over Power Protection
- Easy to read LED's for System Status
- Compact Size, Light Weight



Electrical Specification

Battery Charger Mode	3 Stage Battery Charger
Input Voltage	88-264VAC
Frequency	47 - 63Hz
AC Input current	1.9A @ 90VAC / 0.95A @ 180VAC
Inrush Current	Cold start: 30A @ 230VAC
Leakage Current	<0.75mA @ 240VAC
Output Voltage	See table
Output Current	See table
Overload Protection	102-110% of rated power. Constant Current limiting, Hiccup mode, recovers automatically when fault is removed
Over temperature Protection	>85°C ±5°C on internal heatsink. Shut down output voltage, recovers automatically after temperature goes down.
Operating Temperature Range	-20°C to +50°C (with derating)
Operating Humidity	20-90% RH non-condensing
Storage Temperature Range	-40°C to +85°C
Temperature Coefficient	±0.03% / °C (0-50°C)
Vibration	10-500Hz, 1G 0.5Oct/min, period for 60 min. Each along X, Y, Z axes
Safety Standards	IEC60950-1 1st edition (2001), EN60950-1 1st edition (2001+A11)
Withstand Voltage	I/P-O/P: 3KVAC, I/P-FG: 1.5KVAC, O/P-FG: 0.5KVAC, 1 minute
Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: 100MΩ / 500VDC
EMI Conduction & Radiation	EN55022: 2006 Class B
Harmonic Current	EN61000-3-2: 2006, EN61000-3-3: 1995+A1: 2001+A2: 2005, EN55024: 1998+A1: 2001+A2: 2003
EMS Immunity	IEC61000-4-2 Edition 1.2: 2001-04; IEC61000-4-4: 2004 IEC61000-4-5 Edition 1.1: 2001-04; IEC61000-4-6 Edition 2.1: 2004-11 IEC61000-4-8 Edition 1.1: 2001-03; IEC61000-4-11 Second Edition: 2004-03
Dimensions	210(L) x 85(W) x 50(H)mm
Weight	1.0Kgs

Output Voltage and Current Ratings

MODEL	OUTPUT VOLTAGE	MAX OUTPUT CURRENT	POWER Max.	EFF.
PBP1210A	14.4V	10A	144W	80%
PBP1205A	14.4V	5A	72W	78%
PBP2405A	28.8V	5A	144W	83%
PBP2403A	28.8V	2.5A	72W	80%