

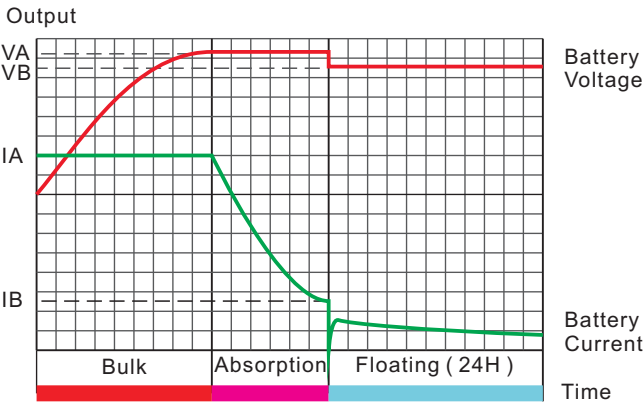
Features :

- Universal AC input with active PFC
- High - performance 3-step charging effect
- Advanced 8 bit microprocessor control circuit
- Reverse battery protected by fuse
- Ignition protection
- Output short circuit protection
- Over power protection
- Easy to read LED's for system status
- Compact size, light weight



MODEL		BP-1210A		BP-1205A	BP-2405A	BP-2403A
Output	DC Voltage Range	14.4V		14.4V	28.8V	28.8V
	Rated Current	10A		5A	5A	2.5A
	Current Range	0 ~ 10A		0 ~ 5A	0 ~ 5A	0 ~ 2.5A
	Rated Power (max.)	144W		72W	144W	72W
	Battery Charger Mode	3 - stage Battery Chargers (Refer to Battery Charging Curve)				
Indication LED		Refer to LED Status				
Input	Voltage Range	88V ~ 264VAC				
	Frequency Range	47Hz ~ 63Hz				
	Efficiency (Typ.) at 230Vac	80%		78%	83%	80%
	AC Current (Max.)	1.9 A / 90VAC 0.95A / 180VAC				
	Inrush Current (Typ.)	COLD START 30A / 230VAC				
Leakage Current		< 0.75mA / 240VAC				
Protection	Over Load	102 ~ 110 % rated output power				
		Protection type : Constant current limiting, Hiccup mode, recovers automatically after fault condition is removed				
	Over Temperature	85°C±5°C(TH1) detect on heat sink				
		Protection type : Shut down output voltage, recovers automatically after temperature goes down				
Environment	Working Temp.	-20°C ~ +50°C (Refer to output load de-rating curve)				
	Working Humidity	20 ~ 90% RH non-condensing				
	Storage Temp., Humidity	-40 ~ +85°C				
	Temp.Coefficient	±0.03%/°C (0 ~ 50°C)				
	Vibration	10 ~ 500Hz, 1G Sweep time 60 min. Each along X,Y,Z axes				
Safety & EMC	Safety Standards	IEC 60950-1, 1st Edition (2001) ; EN 60950-1, 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: 100M Ohms / 500VDC				
	EMI Conduction & Radiation	EN 55022 : 2006 Class B				
	Harmonic Current	EN 61000-3-2 : 2006 ; EN 61000-3-3 :1995+A1 : 2001+A2 : 2005 ; EN 55024 : 1998+A1:2001+A2 : 2003 ;				
EMS Immunity		IEC 61000-4-2 Edition 1.2 : 2001-04 ; IEC 61000-4-4 : 2004 IEC 61000-4-5 Edition 1.1 : 2001-04 ; IEC 61000-4-6 Edition 2.1 : 2004-11 IEC 61000-4-8 Edition 1.1 : 2001-03 ; IEC 61000-4-11 Second Edition : 2004-03				
Others	MTBF Compliance : MIL-HDBK-217K	344.4KHRS		349.1KHRS	319.0KHRS	340.6KHRS
	Dimension (WxHxD)(mm/inch)	210x85x50mm / 8.26x3.34x1.96inch				
	Packing	1kg / 2.2Lbs				
Note	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. The power supply is considered a component which will be installed into a final equipment. 3. The final equipment must be re-confirmed that it still meets EMC directives.					

Battery Charging Curve



IUoU Charging Characteristic

Model	BP-1205A	BP-1210A	BP-2405A	BP-2403A
	12V / 5A	12V / 10A	24V / 5A	24V / 2.5A
VA	14.4V		28.8V	
VB	13.6V		27.2V	
IA	5.0A	10.0A	5.0A	2.5A
IB	0.75A	1.5A	0.75A	0.38A

LED Status

Charging Status	LED Signal	LED Indication
Bulk Charge	■ ■ ■ ■ ■ ■ ■ ■ ■ ■	Fast Green Blink
Absorption Charge	— — — — — — — —	Slow Green Blink
Floating Charge	—————	Solid Green
Charging Failure or Wire Disconnection	- - - - -	Red Blink