## PA/PB-120 Series

120W Single Output Battery Charger or Power Supply





## **Features**

- AC input range selected by switch
  Built-in passive PFC function compliance to EN61000-3-2
  With AC ON-OFF switch

- 3 poles AC inlet with fuse holder
   Protections: Short circuit / Over Load / Over voltage / Over Temperature

- Over Temperature
  Charger type can be selected (Optional)
  Charger for Lead-acid batteries
  Colour LED loading indicator
  Open frame models available (Without safety approval)
  Low cost/High Reliability
  2 years warranty



Specificati	on				
-	Voltage Range	88 ~ 132VAC 176 ~ 264VAC selected by switch			
	Frequency Range	47 ~ 63Hz	·		
	Power Factor	>0.65 (with PFC series)			
INPUT	AC Current	3A/115VAC 1.5A/230VAC			
	Inrush Current (Typ.)	Cold Start 25A/115VAC			
OUTPUT	Leakage Current	<1.5mA/240VAC			
	MODEL No.	PA/PB-120 □ -13 □	PA/PB-120 □-13 □	PA/PB-120 □-13 □	
	DC Voltage	13.8V	27.6V	55.2V	
	Rated Current	7.2A	4.3A	2.2A	
	Current Range	0 ~ 7.2A	0 ~ 4.3A	0 ~ 2.2A	
	Rated Power	99.36W	118.68W	121.44W	
	Efficiency	73%	79%	79%	
	LED Indicated	PA series voltage 105% 1%↓: R	RED / 105% 1%↑:GREEN		
		PB series load 46% 10%↓: GREI	EN / 46% 10%↑:RED		
PROTECTION	Overload	90 ~ 110% rated output power			
		Protection type : Constant curre	ent limiting, recovers auton	atically after fault condition is removed	
	Over Voltage	15~17V	30~35V	60~66V	
		Protection type : Shut off o/p voltage, clamping by zener diode			
	Over Temperature	RTH2 ≥70°C ±10°C detect on RTH2 thermistor			
		Protection type : Shut down o/p voltage, recovers automatically after temperature goes down			
ENVIRONMENT	Working Temperature	-10 ~ +45°C (Please refer to 'perating Curve' section)			
	Working Humidity	20 ~ 90% RH non-condensing			
	Storage Temperature	-20 ~ +85°C, 10 ~ 95% RH			
	Temp Coefficient	±0.05%/°C (0 ~ 45°C)			
	Vibration	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes			
SAFETY & EMC	Safety Standards	UL60950-1, TUV EN60950-1, EN60335, EN60335-1, EN60335-2-29 approved			
	Withstand Voltage	I/P-0/P:3KVAC I/P-FG:1.5KVAC 0/P-FG:0.5KVAC			
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC			
		Compliance to EN55022 (CISPR2	22) Class B		
	Harmonic Current	Compliance to EN61000-3-2,-3			
	EMS Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, light industry level, criteria A			
OTHERS	M.T.B.F.	149.6K hrs min. MIL-HDBK-2			
	Packing	1.1Kg; 16pcs / 17.9Kg / 1.47Cl	JFT(without PFC) 1.24	Kg; 16pcs / 20.1Kg / 1.47CUFT(with PFC)	

- 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- 2. Ripple and Noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with 0.1uf & 47uf parallel capacitor.
- 3. Tolerance: includes setup of tolerance, line regulation and load regulation.
- 4. The power supply is considered as a component which will be installed into final equipment. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to 'EMI testing of component power supplies.'
- 5. With PFC I/P range: 95~132VAC/190~264VAC
- 6. For open P.C.B with 17.8CFM min. Forced air.

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