


■ Features :

- AC input range selected by switch
- Built-in passive PFC function compliance to BS EN/EN61000-3-2
- With AC ON-OFF switch
- 3 poles AC inlet with fuse holder
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Charger type can be selected (Optional)
- Charger for lead-acid batteries
- 2 color LED loading indicator
- Open frame models available (Without safety approval)
- Low cost, High reliability
- 2 years warranty



UL60950-1

(for PA/PB-120□-□C)



UL60950-1

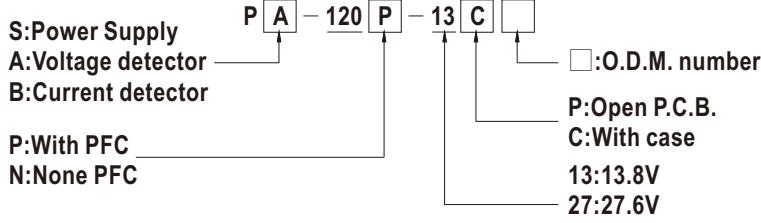
(for PA/PB-120□-□P)



TPTC004



UK CA


SPECIFICATION

MODEL	PA/PB-120□-13□	PA/PB-120□-27□	PA/PB-120□-54□
OUTPUT	DC VOLTAGE	13.8V	27.6V
	RATED CURRENT	7.2A	4.3A
	CURRENT RANGE	0 ~ 7.2A	0 ~ 4.3A
	RATED POWER	99.36W	118.68W
	LED INDICATED	PA series voltage 105%±1% ↓ : RED / 105%±1% ↑ : GREEN PB series load 46%±10% ↓ : GREEN / 46%±10% ↑ : RED	
INPUT	VOLTAGE RANGE	88 ~ 132VAC / 176 ~ 264VAC selected by switch	248 ~ 370VDC
	FREQUENCY RANGE	47 ~ 63Hz	
	POWER FACTOR (Typ.)	>0.65 (with PFC series)	
	EFFICIENCY (Typ.)	73%	79%
	AC CURRENT (Typ.)	3A/115VAC 1.5A/230VAC	
	INRUSH CURRENT (Typ.)	COLD START 25A/115VAC 50A/230VAC	
PROTECTION	LEAKAGE CURRENT	<1.5mA / 240VAC	
	OVERLOAD	90 ~ 110% rated output power Protection type : Constant current limiting, recovers automatically after fault condition is removed	
	OVER VOLTAGE	15 ~ 17V 30 ~ 35V 60 ~ 66V Protection type : Hiccup mode, recovers automatically after fault condition is removed	
	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 TEMP.	-10 ~ +45°C (Refer to "Derating Curve")	
	WORKING HUMIDITY	20 ~ 90% RH non-condensing	
	STORAGE TEMP., HUMIDITY	-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 (Note 4)	SAFETY STANDARDS	UL60950-1, LVD BS EN/EN62368-1, EAC TP TC 004 approved	
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2.0KVAC O/P-FG:0.5KVAC	
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH	
	EMC EMISSION	Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020	
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55024, light industry level, criteria A, EAC TP TC 020	
OTHERS	MTBF	149.6K hrs min. MIL-HDBK-217F (25°C)	
	DIMENSION	PCB Type:144*90*33mm External case type:180*96*49mm (L*W*H)	
	PACKING	External case type: 1.1Kg; 16pcs / 17.9Kg / 1.56CUFT(without PFC) 1.24Kg; 16pcs / 20.1Kg / 1.56CUFT(with PFC) PCB Type : 0.36Kg; 36pcs / 14Kg / 0.99CUFT(without PFC) 0.5Kg; 36pcs / 19Kg / 0.99CUFT(with PFC)	
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. 5. With PFC I/P range: 95~132VAC/190~264VAC. 6. For open P.C.B. WITH 17.8CFM min. Forced air. 7. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). ※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx		

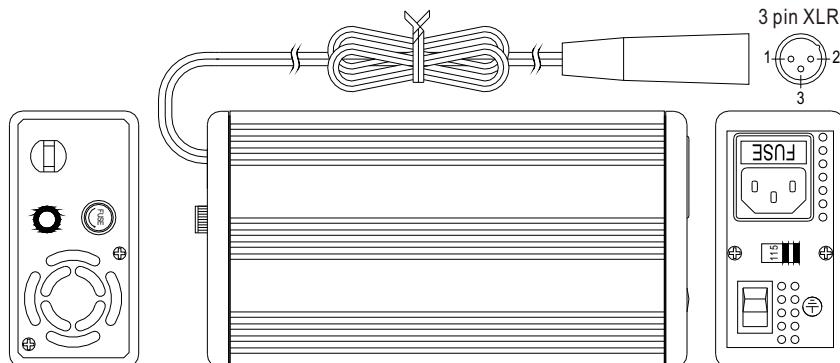
■ Mechanical Specification

Case No. PS-120A Unit:mm

CASE:

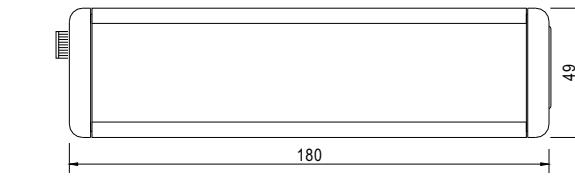
Output cable length=183cm±5cm

Pin No.	Assignment
1	DC OUTPUT +V
2,3	DC OUTPUT -V


PCB:

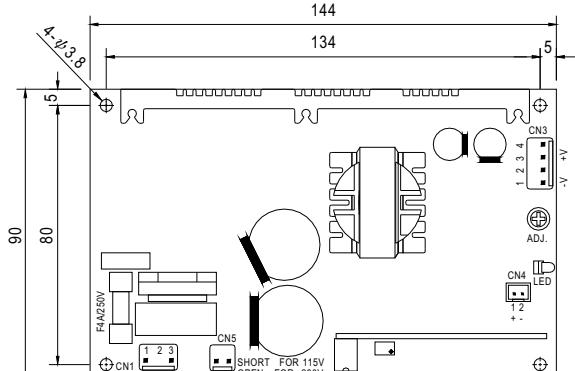
AC Input Connector (CN1) : JST B3P-VH or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1	AC/L		
2	No Pin	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
3	AC/N		



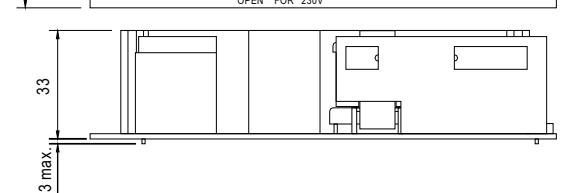
DC Output Connector (CN3) : JST B4P-VH or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1,2	-V	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
3,4	+V		

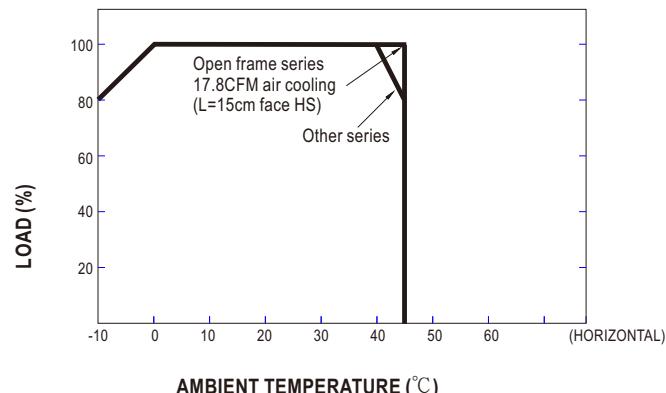


12VDC FAN Output Connector (CN4) : JST B2B-XH or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1	+V	JST XHP or equivalent	JST SXH-001T-P0.6 or equivalent
2	-V		



■ Derating Curve



■ Charging Curve

