



■ 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 / 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



S:Power Supply
A:Voltage detector
B:Current detector

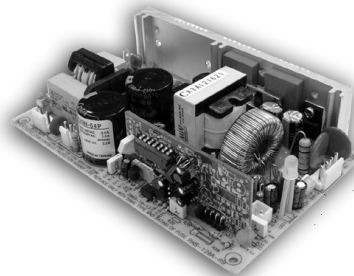
P:With PFC
N:None PFC

P A - 120 P - 13 C

□:O.D.M. number

P:Open P.C.B.
C:With case

13:13.8V
27:27.6V
54:55.2V



SPECIFICATION

MODEL		PS-120-13P/C	PS-120-27P/C	PS-120-54P/C
OUTPUT	DC VOLTAGE	13.8V	27.6V	54V
	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	118.8W
	RIPPLE & NOISE (max.) Note.2	150mVp-p	200mVp-p	250mVp-p
	VOLTAGE ADJ. RANGE	12 ~ 15V	24 ~ 30V	48 ~ 60V
	VOLTAGE TOLERANCE Note.3	±3.0%±8.5%	±1.0%±8.0%	±1.0%±7.5%
	LINE REGULATION	±1.0%	±1.0%	±1.0%
	LOAD REGULATION	1.0%±6.0%	1.0%±5.0%	1.0%±5.0%
	SETUP, RISE TIME	1000ms, 50ms at full load		
HOLD UP TIME (Typ.)	16ms at full load			
INPUT	VOLTAGE RANGE	88 ~ 132VAC / 176 ~ 264VAC selected by switch		
	FREQUENCY RANGE	47~63Hz		
	POWER FACTOR (Typ.)	>0.65 (with PFC series)		
	EFFICIENCY (Typ.)	77%/70%	81%/76%	82%/78%
	AC CURRENT (Typ.)	3A/115VAC 1.5A/230VAC		
	INRUSH CURRENT (Typ.)	COLD START 25A/115VAC 50A/230VAC		
	LEAKAGE CURRENT	<1.5mA / 240VAC		
PROTECTION	OVERLOAD	105 ~ 150% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed		
	OVER VOLTAGE	15 ~ 17V	30 ~ 35V	60 ~ 66V
	OVER TEMPERATURE	RTH2 ≥ 70℃ ±10℃ detect on RTH2 thermistor Protection type : Hiccup mode, recovers automatically after fault condition is removed		
ENVIRONMENT	WORKING TEMP.	-10 ~ +60℃ (Refer to output load derating curve)		
	WORKING HUMIDITY	20 ~ 90% RH non-condensing		
	STORAGE TEMP., HUMIDITY	-20 ~ +85℃, 10 ~ 95% RH		
	TEMP. COEFFICIENT	±0.05%/℃ (0 ~ 45℃)		
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes		
SAFETY & EMC (Note 4)	SAFETY STANDARDS	UL60950-1, TUV EN60950-1, EN60335, EN60335-1, EN60335-2-29 approved		
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC		
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC		
	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) Class B		
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3		
OTHERS	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, light industry level, criteria A		
	MTBF	249.5K hrs min. MIL-HDBK-217F (25℃)		
	DIMENSION	PCB Type:144*90*33mm External case type:180*96*49mm (L*W*H)		
	PACKING	1.1Kg; 16pcs / 17.9Kg / 1.47CUFT(without PFC) 1.24Kg; 16pcs / 20.1Kg / 1.47CUFT(with PFC)		
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ 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.			

Case No. PS-120A Unit:mm