AS-120P-12



**SPECIFICATION** 

MODEL



#### Features:

- 3 pole AC inlet IEC320-C14
- . Built-in active PFC function, PF>0.95
- Protections: Short circuit / Overload / Over voltage / Over temperature
- High power density 5w/in<sup>3</sup>
- Fully enclosed plastic case

AS-120P-20

- Approvals: UL / CUL / TUV / CCC / CB/ CE
- No load power consumption<0.5W</li>
- Meet EISA 2007(Energy Independence and Security Act)
- ZCS/ZVS technology to reduce power dissipation
- 2 years warranty

AS-120P-15



AS-120P-24





AS-120P-48



#### ORDER NO. AS120P12R7B AS120P15R7B AS120P20P1M AS120P24P1M AS120P48P1M DC VOLTAGE Note.2 12V 15V 20V 24V 48V RATED CURRENT 5A 2.5A 6.7A 6A 8.4A **CURRENT RANGE** 0~8.4A $0 \sim 6.7A$ 0~6A 0 ~ 5A 0 ~ 2.5A 100W 100W 120W 120W 120W RATED POWER RIPPLE & NOISE (max.) Note.3 100mVp-p 100mVp-p 200mVp-p 200mVp-p 240mVp-p **OUTPUT** VOLTAGE TOLERANCE Note.4 ±4.0% ±4.0% ±3.0% ±2.0% ±2.0% **LINE REGULATION** ±1.0% ±1.0% ±1.0% ±1.0% Note.5 ±1.0% LOAD REGULATION Note.6 ±3.5% ±3.0% ±2.5% ±2.0% ±2.0% SETUP, RISE TIME 4500ms, 80ms at full load HOLD UP TIME (Typ.) 50ms/230VAC 16ms/115VAC at full load **VOLTAGE RANGE** 90 ~ 264VAC 127 ~ 370VDC **FREQUENCY RANGE** 47 ~ 63Hz POWER FACTOR (Typ.) PF ≥ 0.95/230VAC PF≥0.98/115VAC at full load **INPUT EFFICIENCY (Typ.)** 86% 87.5% 89% 89% 89% AC CURRENT (Typ.) 1.4A/115VAC 0.7A/230VAC **INRUSH CURRENT (Typ.)** 120A/230VAC LEAKAGE CURRENT (max.) <1mA / 240VAC 105 ~ 135% rated output power **OVERLOAD** Protection type: Hiccup mode, recovers automatically after fault condition is removed 14 ~ 16.8V 27 ~ 33.6V 53.3 ~ 67.2V 17 ~ 21V PROTECTION OVER VOLTAGE Protection type: Shut down o/p voltage, re-power on to recover **OVER TEMPERATURE** Protection type: Shut down o/p voltage, re-power on to recover **WORKING TEMP.** 0 ~ + 50°C (Refer to output load derating curve) **WORKING HUMIDITY** 20% ~ 90% RH non-condensing ENVIRONMENT STORAGE TEMP., HUMIDITY -20 ~ +85°C, 10 ~ 95% RH **TEMP. COEFFICIENT** ±0.03% / °C (0 ~ 50°C) VIBRATION 10 ~ 500Hz, 2G 3AXES 10min./1cycle, period for 60min. each along X, Y, Z axes SAFETY STANDARDS UL60950-1, TUV EN60950-1, CCC GB4943 approved WITHSTAND VOLTAGE I/P-O/P:4.25KVDC **SAFETY & ISOLATION RESISTANCE** I/P-O/P:100M Ohms / 25°C / 70% RH **EMC EMI CONDUCTION & RADIATION** Compliance to EN55022(CISPR22) class B, FCC part 15J class B (Note. 7) HARMONIC CURRENT Compliance to EN61000-3-2,3 **EMS IMMUNITY** Compliance to EN61000-4-2,3,4,5,6,8,11, light industry level, criteria A LIFE Average life expectancy of 6 years (12 hours / day, 70% load, 115VAC) MTBF 308.9K hrs min. MIL-HDBK-217F (25°C) **OTHERS**

NOTE

CONNECTOR

**DIMENSION** 

**PACKING** 

**PLUG** 

**CABLE** 

1. All parameters are specified at 230VAC input, rated load, 25°C 70% RH. Ambient.

167\*67\*35mm (L\*W\*H)

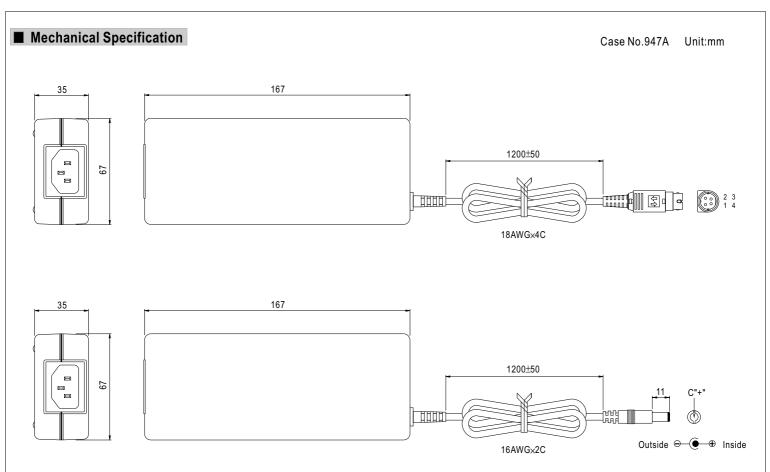
0.52Kg; 30pcs/16.6Kg/1.1CUFT

- 2. DC voltage: The output voltage set at point measure by plug terminal & 50% load.
- 3. Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf & 47uf capacitor.
- 4. Tolerence: includes set up tolerance, line regulation, load regulation.
- 5. Line regulation is measured from low line to high line at rated load.
- 6. Load regulation is measured from 0% to 100% rated load.
- The power supply is considered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the EMC directives

Standard type 120cm of SPT-1, 18Awg\*4c for stock; Other type available by customer requested

Standard type R7B,P1M:  $2.5 \phi$  \*  $5.5 \phi$  \* 11mm, center positive for stock; Other type available by customer requested





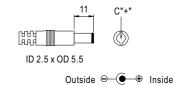
# ■ Plug Assignment

Standard plug(For 12V,15V only)

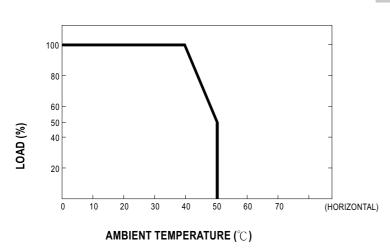
F	R7B	
	PIN NO	OUTPUT
2 (0 0) 3	1,4	+V
1	2,3	-V

Standard plug(For 20V,24V,48V only)

P1M		
P/N	OUTPUT	
CENTER	+	



## **■** Derating Curve



### ■ Static Characteristics

