

## **Datasheet**

120WAC-DC Single Output Desktop





### 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
- Approvals: UL / CUL / TUV / CCC / CB/ CE
- No load power consumption<0.5W</li>
- ENERGY STAR compliant for 24~48V
- Meet EISA 2007(Energy Independence and Security Act) for 12~48V
- ZCS/ZVS technology to reduce power dissipation
- · 2 years warranty









#### **SPECIFICATION** 678-3988 188-797 678-3981 678-3984 188-804 MODEL ORDER NO. AS120P12R7B AS120P15R7B AS120P20P1M AS120P24P1M AS120P48P1M DC VOLTAGE 20V Note.2 15V 24V 48V RATED CURRENT 6.7A 6A 2.5A 8.4A 5A CURRENT RANGE 0~ 8 4A 0~6 7A 0~6A 0~5A 0~2 5A RATED POWER 100W 100W 20W 120W 120W OUTPUT RIPPLE & NOISE (max.) Note.3 100mVp-p 100mVp-р 200mVp-p 200mVp-p 240mVp-p VOLTAGE TOLERANCE Note.4 ±4.0% ±4.0% ±3.0% ±2.0% ±2.0% LINE REGULATION Note.5 ±1.0% +1.0% +1.0% +1.0% +1.0% LOAD REGULATIONNote.6 ±3.5% ±3.0% ±2.5% ±2.0% ±2.0% SETUP. RISE TIME 3000ms, 80ms at full load 50ms/230VAC 16ms/115VAC at full load HOLD UP TIME (Typ.) 127 ~ 370VDC 90 ~ 264VAC VOLTAGE RANGE FREQUENCY RANGE 47 ~ 63Hz POWER FACTOR (Typ.) PF≧0.95/230VAC PF≧0.98/115VAC at full load EFFICIENCY (Typ.) INPUT 89% 89% 86% 87.5% AC CURRENT (Typ.) 1.4A/115VAC 0.7A/230VAC 120A/230VAC LEAKAGE CURRENT (max.) < 1mA / 240VAC 105 ~ 135% rated output power OVERLOAD Protection type: Hiccup mode, recovers automatically after fault condition is removed 53.3 ~ 67.2V 14 ~ 16.8V 17 ~ 21V 22.5 ~ 28V 27 ~ 33.6V PROTECTION OVER VOLTAGE Protection type: Shut down o/p voltage, re-power on to recover 90°C ±10°C R(TH2) detect on heatsink of power transistor 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 ,01~ 95% RH TEMP. COEFFICIENT ± 0.03%(7 0 4 50°C) VIBRATION 10 $\sim$ 500Hz, 2G 3AXES 10min./1cycle, period for 60min. each along X, Y, Z axes SAFETY STANDARDS UL60950-1, TUV EN60950-1, approved CCC GB4943 WITHSTAND VOLTAGE I/P-O/P-4 25KV/DC 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 DIMENSION 167\*67\*35mm (L\*W\*H) PACKING 0.52Kg; 30pcs/16.6Kg/1.1CUFT Standard type R7B,P1M: 2.5 $\phi$ 5.5 $\phi$ \* 11mm, center positive for stock ; Other type available by customer requested **PLUG** CONNECTOR CABLE Standard type 120cm of SPT-1, 18Awg\*4c for stock;Other type available by customer requested 1. All parameters are specified at 230VAC input, rated load, 25°C 70% RH. Ambient. NOTE 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. 7. 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.

File Name: AS-120P-SPEC 2009-12-31



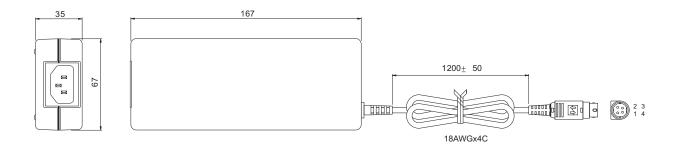
**ENGLISH** 

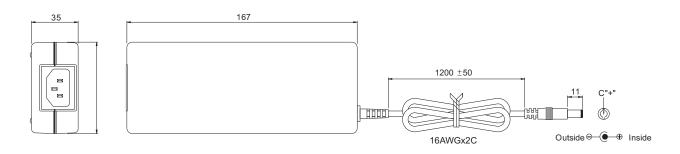
120WAC-DC Single Output Desktop

# AS-120P series

### ■ Mechanical Specification

Case No.947A Unit:mm





### ■ Plug Assignment

Standard plug(For 12V,15V only)

R7B		
	PIN NO	OUTPUT
2 (0 0) 3	1,4	+V
1	2.3	-V

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

Р	1M	C"+"
P/N	OUTPUT	
CENTER	+	ID 2.5 x OD 5.5
		Outside ⊖—⊕ Inside

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