



120W AC-DC Single Output Desktop

AS-120P series



■ Features :

- 3 pole AC inlet IEC320-C14
- Built-in active PFC function, PF>0.95
- Protections: Short circuit/ Over load/ Over voltage/Over temperature
- High power density 5w/in³
- Fully enclosed plastic case
- Approvals: UL/ CUL/ TUV/ CB/ CE
- No load power consumption<0.75W@240VAC
- ZCS/ZVS technology to reduce power dissipation
- 2 years warranty



SPECIFICATION

MODEL		AS-120P-12	AS-120P-15	AS-120P-20	AS-120P-24	AS-120P-48
OUTPUT	ORDER NO.	AS120P12R7B	AS120P15R7B	AS120P20P1M	AS120P24P1M	AS120P48P1M
	DC VOLTAGE <small>Note.2</small>	12V	15V	20V	24V	48V
	RATED CURRENT	8.4A	6.7A	6A	5A	2.5A
	CURRENT RANGE	0~ 8.4A	0 ~ 6.7A	0 ~ 6A	0 ~ 5A	0 ~ 2.5A
	RATED POWER	100W	100W	120W	120W	120W
	RIPPLE & NOISE (max.) <small>Note.3</small>	100mVp-p	100mVp-p	200mVp-p	200mVp-p	240mVp-p
	VOLTAGE ADJ. RANGE	11 ~ 13.5V	13.5 ~ 16.5V	18 ~ 22V	21.6 ~ 26.4V	43.2 ~ 52.8V
		Fixed output by customer choose				
	VOLTAGE TOLERANCE <small>Note.4</small>	±4.0%	±4.0%	±3.0%	±2.0%	±2.0%
	LINE REGULATION <small>Note.5</small>	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	LOAD REGULATION <small>Note.6</small>	±3.5%	±3.0%	±2.5%	±2.0%	±2.0%
SETUP, RISE TIME	3000ms, 80ms at full load					
HOLD TIME (Typ.)	50ms/230VAC 16ms/115VAC at full load					
INPUT	VOLTAGE RANGE	90 ~ 264VAC 127 ~ 370VDC				
	FREQUENCY RANGE	47 ~ 63Hz				
	POWER FACTOR (Typ.)	PF ≥ 0.95/230VAC		PF ≥ 0.98/115VAC at full load		
	EFFICIENCY (Typ.)	85.5%	87.5%	89.5%	90%	89%
	AC CURRENT (Typ.)	1.4A/115VAC 0.7A/230VAC				
	INRUSH CURRENT (Typ.)	120A/230VAC				
LEAKAGE CURRENT (max.)	<1mA / 240VAC					
PROTECTION	OVER LOAD	105 ~ 135% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed				
	OVER VOLTAGE	14 ~ 16.8V	17 ~ 21V	22.5 ~ 28V	27 ~ 33.6V	53.3 ~ 67.2V
	OVER TEMPERATURE	90°C ±15°C (RTH2) Detect on heatsink of power transistor Protection type : Shut down o/p voltage, re-power on to recover				
ENVIRONMENT	WORKING TEMP.	0 ~ + 50°C (Refer to output load derating curve)				
	WORKING HUMIDITY	20% ~ 90% RH non-condensing				
	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 & EMC <small>(Note. 7)</small>	SAFETY STANDARDS	UL60950-1, TUV EN60950-1 Approved				
	WITHSTAND VOLTAGE	I/P-O/P:4.25KVDC				
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms				
	EMI CONDUCTION & RADIATION	Compliance to EN55022(CISPR22) class B, FCC part 15J class B				
	HARMONIC CURRENT	Compliance to EN61000-3-2,3				
OTHERS	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)				
	DIMENSION	167*67*35mm (L*W*H)				
CONNECTOR	PACKING	0.52Kg; 30pcs/16.6Kg/1.1CUFT				
	PLUG	Standard type R7B,P2M: 2.5φ * 5.5φ * 11mm, center positive for stock ; Other type available by customer requested				
NOTE	CABLE	Standard type 120cm of SPT-1, 16Awg*2c for stock ; Other type available by customer requested				
		1.All parameters are specified at 230VAC input, rated load, 25°C 70% RH. Ambient. 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.Tolerance: 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 a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.				

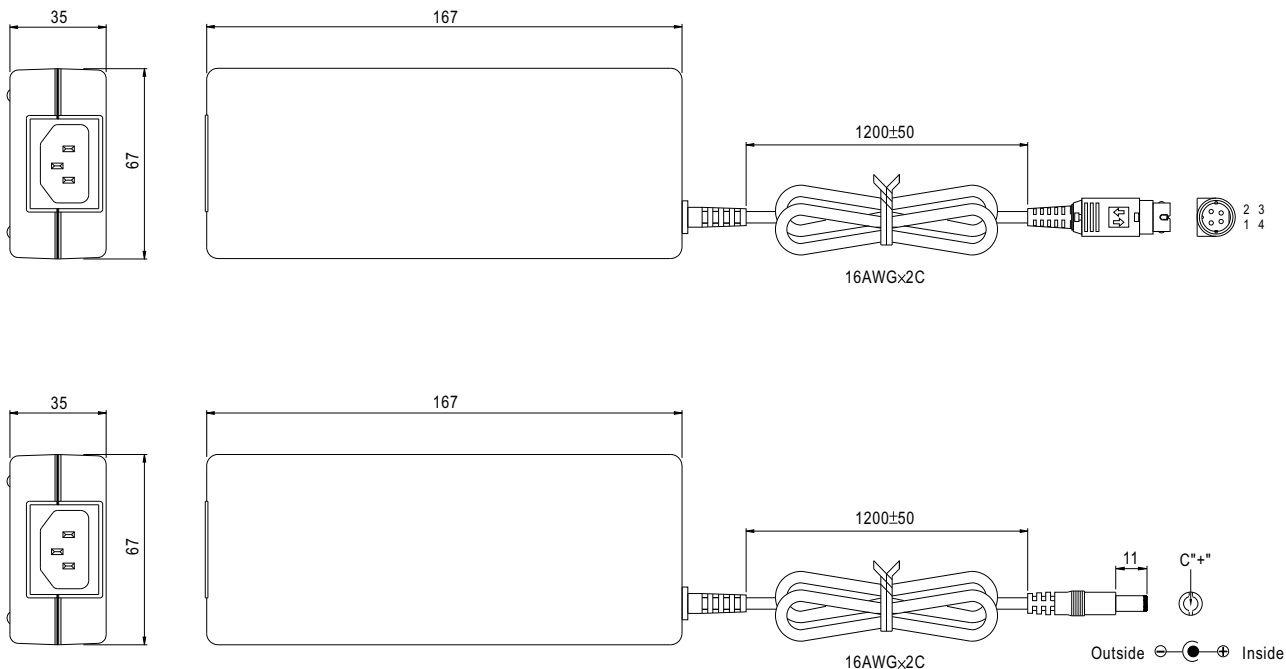


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■ Mechanical Specification

Case No.947A Unit:mm



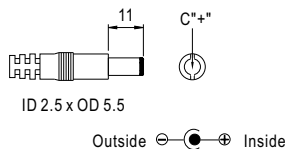
■ Plug Assignment

Standard plug(For 12V,15V only)

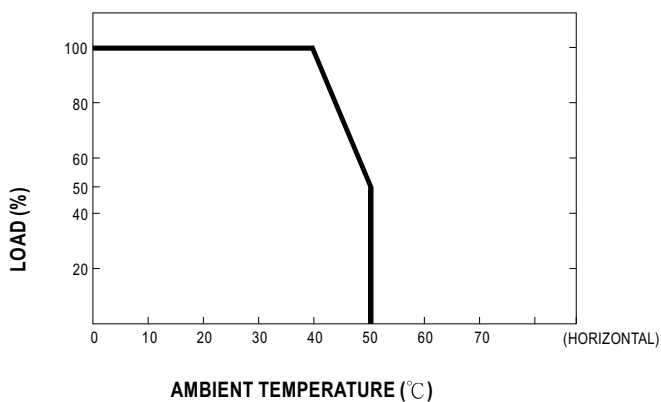
R7B		
PIN NO	OUTPUT	
1,4	+V	
2,3	-V	

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

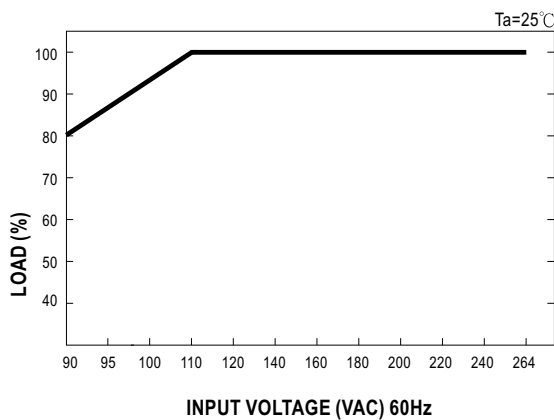
P1M	
P/N	OUTPUT
CENTER	+



■ Derating Curve



■ Static Characteristics



File Name:AS-120P-SPEC 2006-11-17