

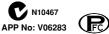




### Features:

- 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/in<sup>3</sup>
- Fully enclosed plastic case
- No load power consumption<0.5W
- Pass energy star level IV(CEC)
- Meet EISA 2007(Energy Independence and Security Act)
- ZCS/ZVS technology to reduce power dissipation
- 2 years warranty







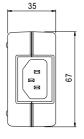
## **SPECIFICATION**

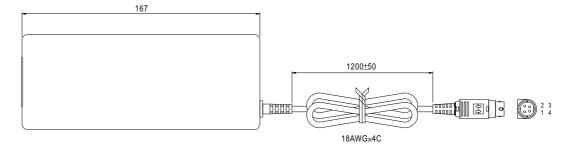
MODEL		AS 120P 12SO		
MODEL		AS-120P-12SO		
		Fixed 12V		
	RATED CURRENT	8.4A		
	CURRENT RANGE	0~ 8.4A		
	RATED POWER	100W		
OUTPUT	RIPPLE & NOISE (max.) Note.3			
OUTPUT	VOLTAGE TOLERANCE Note.4 ±4.0%			
		±1.0%		
	LOAD REGULATION Note.6	±3.5%		
	SETUP, RISE TIME	3000ms, 80ms at full load		
	HOLD TIME (Typ.)	50ms/230VAC 16ms/115VAC at full load		
	VOLTAGE RANGE	90 ~ 264VAC 127 ~ 370VDC		
	FREQUENCY RANGE	47 ~ 63Hz		
	POWER FACTOR (Typ.)	$PF \ge 0.95/230VAC$ $PF \ge 0.98/115VAC$ at full load		
INPUT	EFFICIENCY (Typ.)	85.5%		
	AC CURRENT (Typ.)	1.4A/115VAC 0.7A/230VAC		
	INRUSH CURRENT (Typ.)	120A/230VAC		
	LEAKAGE CURRENT (max.)	<1mA / 240VAC		
	01/50 1 0 4 0	105 ~ 135% rated output power		
	OVER LOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed		
	OVER VOLTAGE	14 ~ 16.8V		
PROTECTION		Protection type: Shut down o/p voltage, re-power on to recover		
	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		
	WORKING TEMP.	0 ~ + 50°C (Refer to output load derating curve)		
	WORKING HUMIDITY	20% ~ 90% RH non-condensing		
FNVIRONMENT	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	SAFETY STANDARDS	Design refer to UL60950-1, TUV EN60950-1, CCC GB4943		
	WITHSTAND VOLTAGE	I/P-O/P:4.25KVDC		
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 25°C / 70% RH		
	LIFE	Average life expectancy of 6 years (12 hours / day, 70% load, 115VAC)		
	MTBF 新研發部 画	308.9K hrs min. MIL-HDBK-217F (25℃)		
OTHERS	DIMENSION 09. 02. 18	167*67*35mm (L*W*H)		
	PACKING 涨行	0.52Kg; 30pcs/16.6Kg/1.1CUFT		
	PLUG 5x 1	Standard type R7B		
CONNECTOR	CABLE	Standard type 120cm of SPT-1, 18Awg*4c		
NOTE	1.All parameters are specified 2.DC voltage: The output volt 3.Ripple & noise are measure 4.Tolerence: includes set up to 5.Line regulation is measured 6.Load regulation is measure	ecified at 230VAC input, rated load, 25°C 70% RH. Ambient.  It voltage set at point measure by plug terminal & 50% load.  asured at 20MHz by using a 12" twisted pair terminated with a 0.1uf & 47uf capacitor.  It up tolerance, line regulation, load regulation.  sured from low line to high line at rated load.  asured from 0% to 100% rated load.  e right to adjust this spec when deemed appropriate.		



## ■ Mechanical Specification

Case No.947A Unit:mm





# ■ Plug Assignment

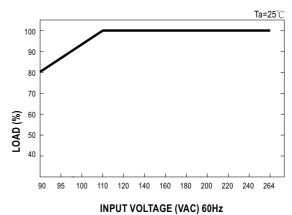
#### Standard plug

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

## **■** Derating Curve

# 100 80 60 50 40 2009. 02. 18 ※ 行 2009. 02. 18 AMBIENT TEMPERATURE (°C)

### ■ Static Characteristics







### Features:

- AC input range selected by switch
- Protections:Short circuit / Overload
- Cooling by free air convection
- Output is isolated from the others
- 100% full load burn-in test
- Fixed switching frequency at 25KHz I/P-O/P:Rated
- Low cost
- High reliability
- 1 year warranty

#### **SPECIFICATION**

MODEL		ID-30B			
ОИТРИТ	OUTPUT NUMBER	CH1	CH2		
	DC VOLTAGE	5V	24V		
	RATED CURRENT	2.2A	1A		
	CURRENT RANGE	0.1 ~ 2.2A	0.1 ~ 1A		
	RATED POWER	35W			
	RIPPLE & NOISE (max.) Note.2	100mVp-p	150mVp-p		
	VOLTAGE ADJ. RANGE	CH1: 4.6~5.5V			
	VOLTAGE TOLERANCE Note.3	±2.0%	±7.0%		
	LINE REGULATION	±0.5%	±0.5%		
	LOAD REGULATION	±1.5%	±6.5%		
	SETUP, RISE TIME	250ms, 100ms at full load			
	HOLD TIME (Typ.)	40ms at full load			
	VOLTAGE RANGE	90 ~ 130VAC / 180 ~ 260VAC selected by switch on PCB 248 ~ 370VDC			
	FREQUENCY RANGE	47 ~ 63Hz			
INPUT	EFFICIENCY(Typ.)	72%			
	AC CURRENT (Typ.)	0.8A/110VAC 0.4A/220VAC			
	INRUSH CURRENT (Typ.)	15A/110VAC 30A/220VAC			
PROTECTION	OVER LOAD	105 ~ 150% rated output power			
PROTECTION		Protection type: Hiccup mode, recovers automatically after fault condition is removed			
ENVIRONMENT	WORKING TEMP.	-10 ~ +60°C (Refer to output load derating curve)			
	WORKING HUMIDITY	20 ~ 90% RH RH non-condensing			
	STORAGE TEMP., HUMIDITY	-20 ~ +85°C, 10 ~ 95%			
	TEMP. COEFFICIENT	±0.05%/°C			
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes			
	SAFETY STANDARDS	Design refer to UL1012			
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:1.5KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC			
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH			
	EMI CONDUCTION & RADIATION	Design refer to FCC Part15 J Conduction Class A			
OTHERS	MTBF	597.7K hrs min. MIL-HDBK-217F (25°C)			
	DIMENSION	129*98*38mm (L*W*H)			
	PACKING	0.41Kg; 30pcs/13.4Kg/0.86CUFT			
NOTE	2. Ripple & noise are measure	DT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.  e measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.  es set up tolerance, line regulation and load regulation.			



