



SUNPOWER TECHNOLOGY CORP.
 16F-1, No.150, Jian Yi Rd., Chung Ho City, Taipei Hsien, Taiwan, R.O.C.
 TEL: 886-2-8226-3100 FAX: 886-2-8226-3111
 http://www.sunpower.com.tw
 E-mail: sunpower@sunpower.com.tw

SPP-AS Series

20W ~ 30W Single~Triple Output

Open Frame Power Supply



Mounting Hole: 90 x 40mm
 Dimension: 100 x 50 x 28mm

3.94 x 1.97 x 1.1 inch



Features:

- * Small size, high reliability
- * Cooling by natural air
- * Over voltage protection
- * Short circuit protection
- * 100% full load burn-in test
- * UL, cUL approved
- * 1 year warranty

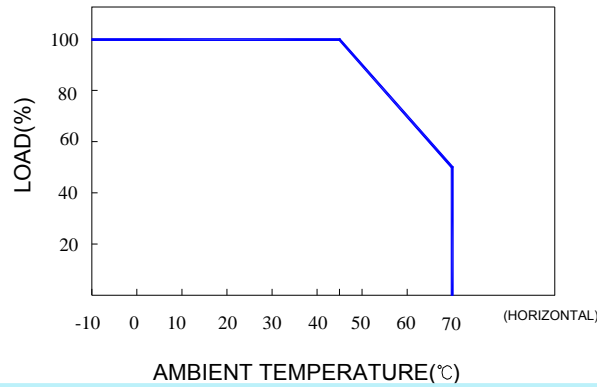
Specification:

INPUT	Voltage	90V ~ 264VAC universal full range or 127V ~ 375VDC.							
	Frequency	47 ----- 63 Hz							
	Current	<0.8A @ 100V AC input.							
	Inrush Current	<30A@115V / <45A@230V AC input, Cold start at 25°C ambient							
	Leakage Current	<1.5mA@264V AC input							
OUTPUT	MODEL	SPP-AS20			SPP-AS21		SPP-AS22	SPP-AS23	SPP-AS24
	Voltage	V1	V2	V3	V1	V2	V1	V1	V1
		5V	12V	-12V	5V	12V	12V	15V	24V
	Min Load	0.3A	0.1A	0A	0.3A	0.1A	0.1A	0.1A	0.1A
	Max Load	2A	1A	0.3A	2.5A	1.2A	2.2A	2.0A	1.3A
	Output Tolerance ②	±5%		±10%	±5%		±3%	±3%	±2%
	Ripple Noise MAX. ③	70mV	120mV	150mV	120mV	150mV	120mV	150mV	200mV
	Efficiency (TYP.)	68%			71%		71%	73%	75%
Output MAX.	25.6W			26.9W		26.4W	30W	31.2W	
PROTECTION	Over Voltage	5.8V ~ 7.0V				13.8~16.8V	17.3~21V	27.6~33.6V	
		Hiccup and recovers automatically after the fault is removed.							
	Short Circuit	When power supply short circuit acted, power supply will go into hiccup mode and recover automatically after the fault is removed.							
ELEC. CHAR.	Rise time	<20mS							
	Hold up time	>20mS@230V							
	Setup time (TYP.)	800mS@115V; 300mS@230V							
ENVIRONMENT	Temperature ④	Operating: -10~70°C; De-rating: 45°C ~70°C : 2.0%/°C. ; Storage: -20~+85°C							
	Humidity	Operating: 20% ~ 90% RH (non condensing); Storage: 10% ~ 95% RH (non condensing)							
SAFETY	Withstand voltage	I/P-O/P:3KVAC, I/P-PE:1.5KVAC, 1minute							
	Isolation resistance	I/P-O/P, I/P-PE, > 100MΩ/500VDC at 25°C / 70% RH							
	Safety standard	UL 60950 3 rd , CSA C22.2 No.60950 3 rd , approved							
EMC	EMI	EN 55022 CLASS B · FCC CFR 47 PART 15 CLASS B · CNS 13438 CLASS B.							
		Compliance to EN61000-3-2 CLASS A, EN61000-3-3,							
	EMS	EN 55024 : EN 61000-4-2,3,4,5,6,8,11							
OTHERS	Cooling	Natural cooling.							
	M.T.B.F.	449K hours							
	Dimension	100 x 50 x 28 mm (L*W*H)							
	Packing	N.W.: 0.2Kg / 1pc; 80pcs/ 1.11 CUFT / 1 CTN							
NOTE	① All measurements which not mentioned are based on 230VAC input, output Max at ambient 25°C / 70%RH								
	② Output tolerance included set up voltage, line regulation and load regulation.								
	③ Ripple & noise are measured at 115/230VAC input with 0~50°C condition and 20MHz of bandwidth by using a 10" ~15" twisted pair-wire with a 0.1uF & a 47uF parallel capacitor.								
	④ The operating temperature shall follow the de-rating curve in spec								
	⑤ The power supply is considered a component of end-equipment. The end-equipment must be re-confirmed whether comply with EMC directives.								



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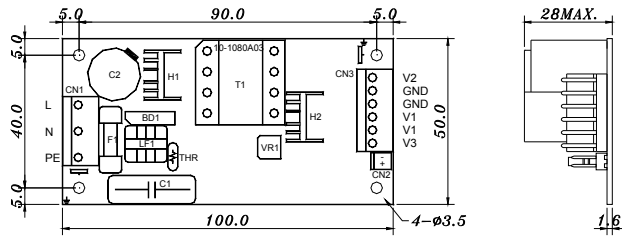
De-rating Curve :



Dimension:

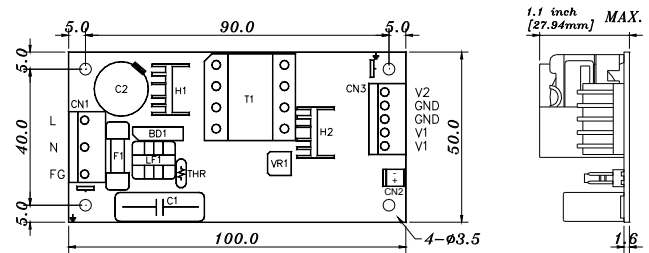
(Unit: mm)

SPP-AS20



CONNECTORS:
 AC INPUT :
 CN1.MOLEX 5277-05 OR EQUIVALENT.
 DC OUTPUT :
 CN3.MOLEX 5273-06 OR EQUIVALENT.
 FAN :
 CN2.MOLEX 5045-02A OR EQUIVALENT.

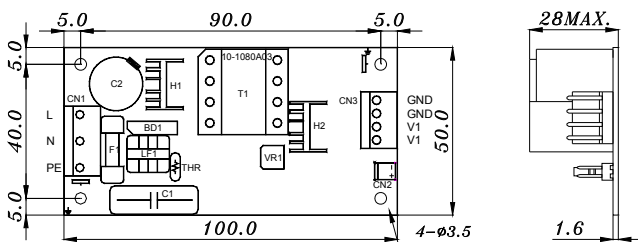
SPP-AS21



CONNECTORS:
 AC INPUT :
 CN1.MOLEX 5277-05 OR EQUIVALENT.
 DC OUTPUT :
 CN3.MOLEX 5273-05 OR EQUIVALENT.
 FAN :
 CN2.MOLEX 5045-02A OR EQUIVALENT.

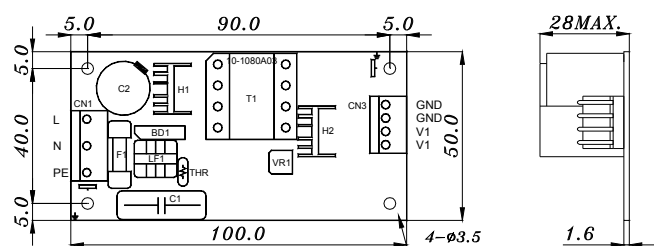
NOTE :
 1. PCB NO. : 10-1080A03.
 2. PCB SIZE : 100mm x 50mm.
 3. PCB THICKNESS : 1.6mm.
 4. O/P CONNECTOR : 5P, PITCH 3.96mm.

SPP-AS22



CONNECTORS:
 AC INPUT :
 CN1.MOLEX 5277-05 OR EQUIVALENT.
 DC OUTPUT :
 CN3.MOLEX 5273-04 OR EQUIVALENT.
 FAN :
 CN2.MOLEX 5045-02A OR EQUIVALENT.

SPP-AS23/ SPP-AS24



CONNECTORS:
 AC INPUT :
 CN1.MOLEX 5277-05 OR EQUIVALENT.
 DC OUTPUT :
 CN3.MOLEX 5273-04 OR EQUIVALENT.