



SUNPOWER TECHNOLOGY CORP.
 33485 WESTERN AVE. UNION CITY, CA 94587, UNITED STATES
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SPP-AS Series

20W ~ 30W

Open Frame Power Supply



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

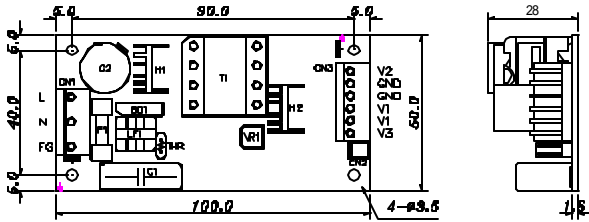
Features:									
Universal full range AC input 90V ~ 264V									
Light weight, compact size									
High efficiency, high reliability									
Over voltage & short circuit protection									
Output voltage $\pm 10\%$ adjustment for single output models									
100% 50 burn-in test									
UL, cUL certified, Meet CB, CE, TUV standard									
2 years warranty									
Specification:									
MODEL	SPP-AS20			SPP-AS21		SPP-AS22	SPP-AS23	SPP-AS24	
OUTPUT	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	0A	0A	0A
	Max. Load	2A	1A	0.3A	2.5A	1.2A	2.2A	2.0A	1.3A
	Regulation	$\pm 5\%$		$\pm 10\%$	$\pm 5\%$		$\pm 3\%$	$\pm 3\%$	$\pm 2\%$
	Ripple Noise _(max)	70mV	150mV	120mV	120mV	150mV	120mV	150mV	200mV
	Efficiency (typ)	68%			71%		71%	73%	75%
Max Power	25.6W			26.9W		26.4W	30W	31.2W	
INPUT	Voltage	AC 90V --- 264V Universal full range, single phase.							
	Frequency	47 ---- 63 Hz							
	Current	<8.0A @ 100V AC input, full load condition							
	Inrush Current	<30A@115V / <45A@230V AC input, full load condition. Cold start at 25 ambient							
	Leakage Current	<1.5mA@264V AC input							
PROTECTION	Over Voltage Protection	+5V: +5.8V ~ +7.0V			+5V: +5.8V ~ +7.0V		13.8V-17.5V	17.3V-21V	27.6V-33.6V
	Short Circuit Protection	Shutdown, recovers automatically after fault condition has been removed.							
OTHERS	Setup time	800mS@115V; 300mS@230V typical							
	Rise time	<20mS							
	Hold up time	>20mS@230V							
	Cooling	Natural Cooling							
Environment	Temperature	Operating: 0~70 ; derating: 50 ~70 : 2.5%/ . Storage: -10~+75							
	Humidity	Operating: 20% ~ 85%; Storage: 10% ~ 95% (non condensing)							
M.T.B.F.	555K hours								
SAFETY	UL 60950, CSA C22.2 No.60950 certified, TUV EN 60950, IEC 60950, EMKO-TSE (74-SEC)207/94 standard								
EMC	EMI	FCC CFR 47 PART 15 CLASS B, EN 50081-1, CNS 13438 CALSS B.							
	EMS	EN 50082-1 (1997)							
PACKING	N.W.: 0.12Kg / 1pc; 140pcs / 2.03 Cu ft ³ / 1 CTN								



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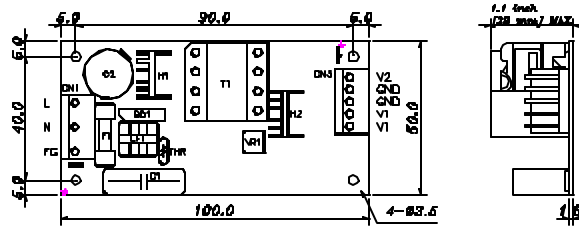
Dimension:

SPP-AS20



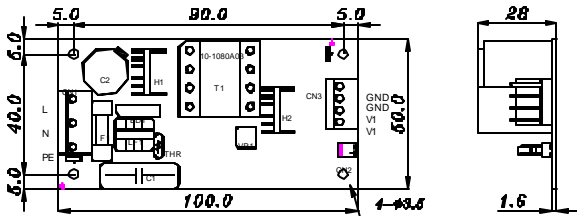
NOTE:
 1. PCB NO. : 10-1080A03.
 2. PCB SIZE : 100mm x 50mm.
 3. PCB THICKNESS : 1.6mm.
 4. O/P CONNECTOR : 6P, PITCH 3.96mm.

SPP-AS21



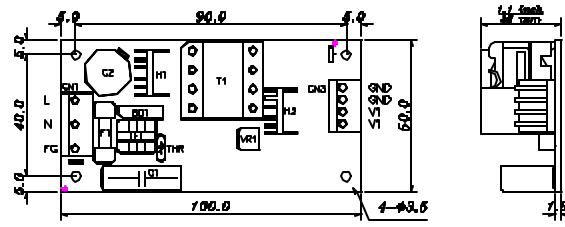
NOTE:
 1. PCB NO. : 10-1080A03.
 2. PCB SIZE : 100mm x 50mm.
 3. PCB THICKNESS : 1.6mm.
 4. O/P CONNECTOR : 5P, PITCH 3.96mm.

SPP-AS22



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

SPP-AS23 / SPP-AS24



NOTE:
 1. PCB NO. : 10-1080A02.
 2. PCB SIZE : 100mm x 50mm.
 3. PCB THICKNESS : 1.6mm.