



SUNPOWER TECHNOLOGY CORP.
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SPS-M070-Dx Series

72W ,Dual Output
 For Medical

127 x 82 x 36 mm
 5 x 3.23 x 1.42 inch



Features:

- * Low leakage current < 200µA
- * Power ON with LED indicator
- * Built-in EMI filter, low ripple noise
- * Cooling by natural air
- * Over voltage protection
- * Over load & short circuit protection
- * V1 Output voltage ± 10% adjustment for D3 · D4
- * 100% full load burn-in test
- * UL, 60601-1 medical standard (pending)
- * 3 years warranty

Specification:

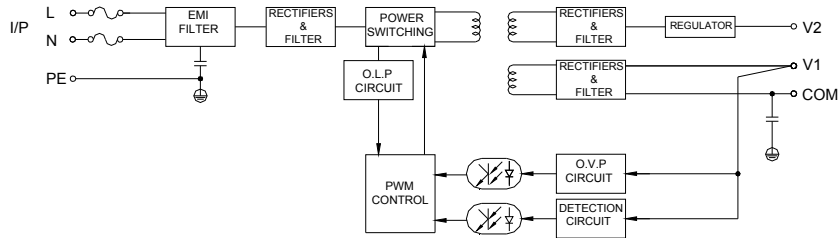
INPUT	Voltage	90V ~ 264VAC universal full range or 127V ~ 375VDC.							
	AC Frequency	47 ----- 63 Hz							
	Current	1.8A max at 100V AC input, full load condition							
	Inrush Current	<30A@115V / <60A@230V AC input, full load condition. Cold start at 25°C ambient							
	Leakage Current	<200µA @264V AC input							
OUTPUT	MODEL	SPS-M070-D1		SPS-M070-D2		SPS-M070-D3		SPS-M070-D4	
	Output	V1	V2	V1	V2	V1	V2	V1	V2
	Voltage	5 V	12 V	5 V	24 V	12V	5V	24V	5V
	Min Load	1.0 A	0.3 A	1.0 A	0.2 A	0.6A	0A	0.3A	0A
	Max Load	7.0 A	3.0 A	7.0 A	2.5 A	6A	3A	3A	3A
	Output Tolerance ②	± 3 %	± 6 %	± 3 %	± 6 %	± 1%	± 5%	± 1%	± 5%
	Ripple Noise MAX. ③	70 mV	120 mV	70 mV	240 mV	120mV	70mV	240mV	70mV
	Efficiency (TYP.)	77%		79%		77%		79%	
	Output Max.	72W							
PROTECTION	Over Voltage	5.8 ~7.0 V	--	5.8 ~7.0 V	--	13.8~16.8V	--	27.6~33.6V	--
	Shutdown and latch off, recover after re-start up.								
	OverLoad & Short Circuit	When power supply over 105%~ 150% max load or short circuit acted, power supply will go into hiccup mode and recover automatically after the fault is removed.							
OTHERS	Rise time	<20mS							
	Hold up time	>16.7mS@115V; >60mS@230V							
	Setup time	800mS @115V, 300mS @230V							
ENVIRONMENT	Temperature ④	Operating: -20 ~ 70°C ; De-rating: 45 ~ 70°C: 2.5%/°C ; Storage: -40 ~ +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, O/P-PE:0.5KVAC, 1minute							
	Isolation resistance	I/P-O/P, I/P-PE, O/P-PE > 100MΩ/500VDC at 25°C/ 70% RH							
	Safety standard	UL 60601-1, CSA C22.2 No.601.1, TUV EN 60601-1, IEC 60601-1-1 2 nd , VDE DIN-EN 60601-1-4(1999) standard							
EMC	EMI	FCC Method 47 CFR Part 18 CLASS B, EN 55022, EN 55011,CNS 13803 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 ; ENV 50204 ; EN60601-1-2 ; EN61204-3							
EMC	Cooling	Natural cooling.							
	M.T.B.F.	379 K hours at 25°C							
	Dimension	127 x 82 x 36 mm (L*W*H)							
	Packing	N.W.: 0.5 Kg / 1pc; 30pcs / 1.24 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. The regulation is measured between 20%-100% max load of each output, Total output t must under output Max .							
	③	Ripple & noise are measured at 100~254VAC input with 0~50°C condition and 20MHz of bandwidth by using a 10" ~15" twisted pair-wire terminated with a 0.1µF & a 47µF parallel capacitor.							
	④	The operating temperature shall follow the de-rating curve in spec The output load may be requested for decreasing as de-rating curve in spec when low input voltage is under 100VAC.							
	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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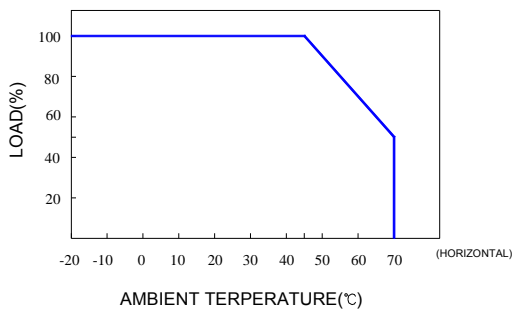
SPS-M070-Dx Series

Block Diagram : UD3

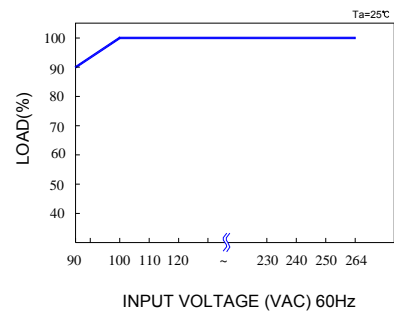


SPS-M070-D1 & D2 V2 without regulator

De-rating Curve :

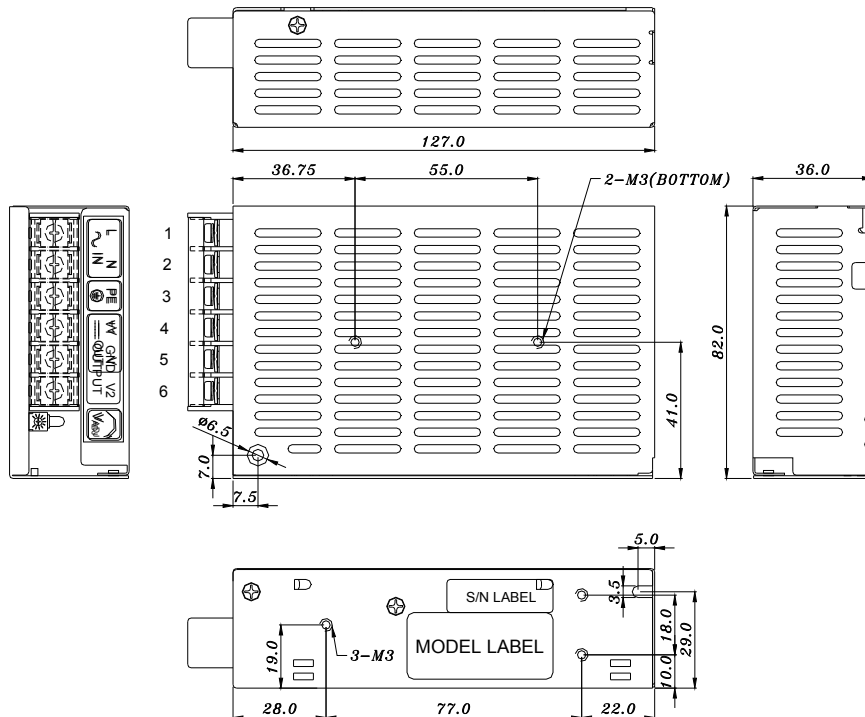


Output De-rating Vs Input Voltage :



Dimension:

(Unit: mm)



NOTES:

TERMINAL BLOCK: 6P, PITCH 7.62mm WITH PLASTIC COVER.

MODEL No.	1	2	3	4	5	6
SPS-M070 -Dx	L	N	PE	V1	GND	V2