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SPS-025-xx Series

25W, Single Output

Green mode function



79 x 50.8 x 28.5 mm

3.11 x 2.0 x 1.12 inch



Features:

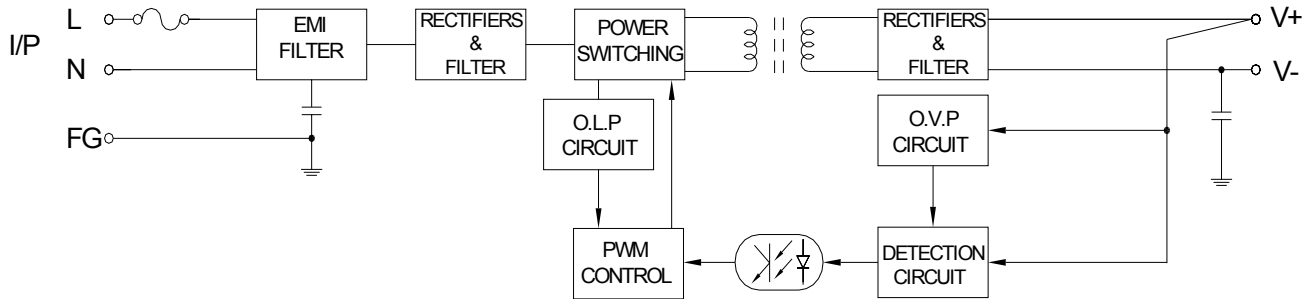
- * Green mode design, no load < 0.3W
- * High efficiency and high reliability
- * Built in EMI filter, low ripple noise
- * Over voltage protection : Voltage limited mode
- * Over load & short circuit protection : Hiccup mode
- * Output voltage $\pm 10\%$ adjustment
- * 100% full load burn-in test
- * $-20^{\circ}\text{C} \sim 70^{\circ}\text{C}$ Operating temperature
- * UL, cUL, TUV, CB, CE approved
- * 3 years warranty

Specification:

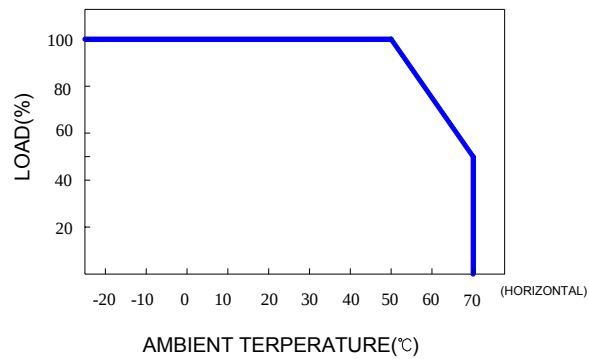
INPUT	Voltage	88V ~ 264VAC universal full range or 125V ~ 375VDC.							
	Frequency	47 ~ 63 Hz							
	Current	<0.65A@100V AC input, full load condition							
	Inrush Current (TYP.)	30A@115V , 50A@230V AC input, Cold start at 25°C ambient							
	Leakage Current	<0.5mA@264V AC input							
OUTPUT	MODEL No.	SPS-025-3.3	SPS-025-05	SPS-025-7.5	SPS-025-12	SPS-025-15	SPS-025-24	SPS-025-30	SPS-025-48
	Voltage	3.3V	5V	7.5V	12V	15V	24V	30V	48V
	Min Load	0A	0A	0A	0A	0A	0A	0A	0A
	Max Load	6A	5A	3.4A	2.1A	1.7A	1.1A	0.9A	0.57A
	Output Tolerance ②	$\pm 3\%$	$\pm 2\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$
	Ripple Noise MAX. ③	70mV	70mV	80mV	120mV	150mV	150mV	200mV	200mV
	Efficiency (TYP.)	72%	79%	80%	84%	85%	86%	87%	88%
PROTECTION	Output MAX.	20W	25W	25W	25W	25W	27W	27W	27W
	Over Voltage	3.8~4.6V	5.8~7.0V	8.6~10.5V	13.8~16.8V	17.3~21.0V	27.6~33.6V	34.5~42.0V	55.2~67.2V
	Over Load & Short Circuit	Limiting voltage latch When power supply over 105%~ 180% max load or short circuit acted, power supply will go into hiccup mode and recover automatically after the fault is removed.							
ELEC. CHAR.	Rise time	<30mS							
	Hold up time	>60mS@230V, full load condition							
	Setup time	<1 Sec@100 ~ 240V AC							
	Green mode function	Power consumption at no load < 0.3W at 240VAC input							
ENVIRONMENT	Temperature ④	Operating: $-20 \sim +70^{\circ}\text{C}$; De-rating: $50 \sim 70^{\circ}\text{C}$: 2.5%/°C ; Storage: $-40 \sim +85^{\circ}\text{C}$							
	Humidity	Operating: 20% ~ 90% RH (non condensing) ; Storage: 10% ~ 95% RH (non condensing)							
	Altitude	6562 ft ($\approx$ 2000 m) operating							
SAFETY	Withstand voltage	I/P-O/P:3KVAC, I/P-FG:1.8KVAC, O/P-FG:0.5KVAC, 1minute							
	Isolation resistance	I/P-O/P, I/P-FG, O/P-FG > 100M Ω /500VDC at 25°C / 70% RH							
	Safety standard	UL 62368-1 2 nd Edition, 2014-12-01, CAN/CSA C22.2 No. 62368-1-14, 2 nd Edition, 2014-12, TUV EN 62368-1:2014+A11, IEC 62368-1:2014 approved							
EMC	EMI	EN / BS EN 55032 CLASS B, FCC CFR 47 PART 15 CLASS B approved, CNS 13438 CLASS B standard. EN / BS EN 61000-3-2 CLASS A, EN / BS EN 61000-3-3 approved							
	EMS	EN / BS EN 55035 : 2017 EN / BS EN 61000-4-2,3,4,5,6,8,11 approved							
OTHERS	Cooling	Natural cooling.							
	M.T.B.F.	450K hours							
	Terminal pitch	5P / 7.62mm with plastic cover							
NOTE	Packing	N.W.: 0.18 Kg / 1pc; 80pcs/ 1.11 CUFT / 1 CTN							
	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 100~254VAC input with 10~50°C condition and 20MHz of bandwidth by using a 10" ~15" twisted pair-wire terminated 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.							

SPS-025-xx Series

Block Diagram : US1-1

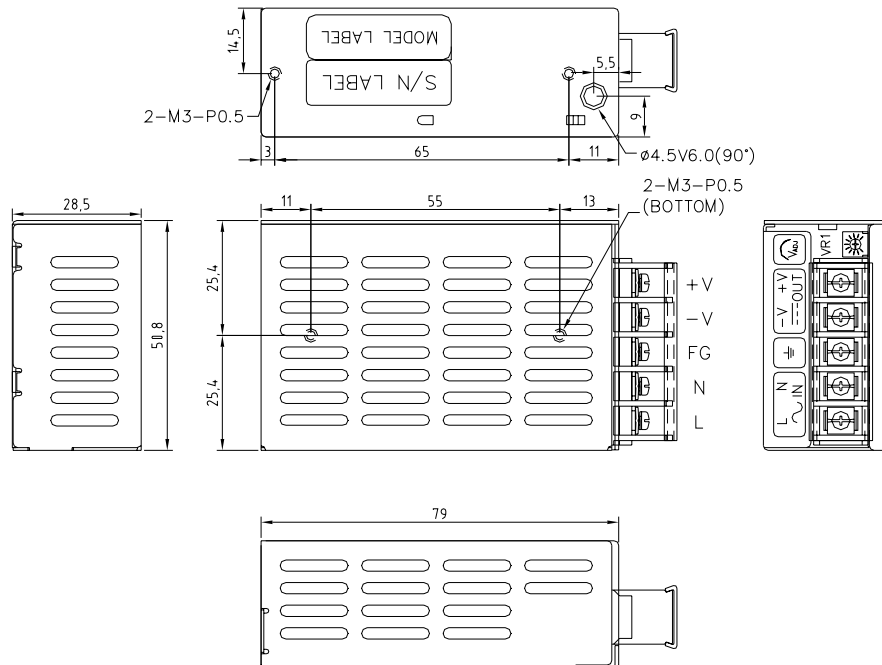


De-rating Curve :



Dimension:

(Unit: mm)



Terminal Pin. No Assignment: 5P/7.62mm W/PC cover

Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4	DC OUTPUT -V
2	AC/N	5	DC OUTPUT +V
3	FG		