

# SPS-G050

# Single

# 33W~50W

Country of Origin : Taiwan  
 Operating Temperature : -20 ~ 70 °C  
 Dimension : 99 x 82 x 35 mm  
 Approvals / Marks : UL, c-UL, TÜV, CB, CE



### Features:

Green-mode designing. NO load <0.75W  
 Built in EMI filter, low ripple noise  
 Overload, over voltage, short circuit protection  
 Non minimum load requirement  
 Output voltage  $\pm 10\%$  adjustment  
 100% 50 °C burn-in tested  
 1 year warranty

### Specification:

MODEL		SPS G 050-3.3	SPS G 050-05	SPS G 050-7.5	SPS G 050-12	SPS G 050-15	SPS G 050-24	SPS G 050-30	SPS G 050-48
OUTPUT	Voltage	3.3V	5V	7.5V	12V	15V	24V	30V	48V
	min. Load	0A	0A	0A	0A	0A	0A	0A	0A
	max. Load	10A	9A	6.5A	4.2A	3.4A	2.2A	1.7A	1.1A
	Tolerance	$\pm 3\%$	$\pm 2\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$
	Ripple & Noise (max)	50mV	70mV	70mV	120mV	150mV	150mV	200mV	200mV
	Efficiency (typ)	72%	78%	79%	81%	83%	84%	84%	86%
Max. Output Power		33W	45W	48.8W	50.4W	51W	52.8W	51W	52.8W
Output Voltage adjustment range		$\pm 10\%$ of rated output voltage							
INPUT	Voltage	88 ~ 264VAC / 125 ~ 375VDC Universal full range, single phase							
	Frequency	47 ~ 63 Hz							
	Current	1.3A max at 100VAC input, full load condition							
	Inrush Current	<30A@115VAC / <50A@230VAC input, Cold start at 25 °C ambient							
	Leakage Current	<1.5mA@264VAC input							
PROTECTION	Overload	> 105% ~ 150% of rating, recovers automatically after fault has been removed							
	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	34.5-42V	55.2-67.2V
	Over Temp.	-							
	Short Circuit	Shutdown, recovers automatically after fault condition has been removed							
OTHERS	Setup time	< 1.5s@115VAC / < 0.6s@230VAC							
	Rise time	< 30ms@230VAC							
	Holdup time	> 60ms@230VAC							
	Cooling	Natural Cooling							
	Green Mode Function	When NO load, the input dissipation is < 0.75W							
Environment	Temperature	Operating: -20 ~ +70 °C ; De-rating: 45 ~ 70 °C: 2.5%/°C ; Storage: -40 ~ +85 °C							
	Humidity	Operating: 20% ~ 85%; Storage: 10% ~ 95% (non condensing)							
M.T.B.F.	335K hours								
SAFETY	Approved:	UL 60950-1, CSA C22.2 No.60950-1, TUV EN 60950-1, IEC 60950-1, EMKO-TSE (74-SEC) 207/94 standard							
EMC	EMI	EN 55022 CLASS B , FCC CFR 47 PART 15 CLASS B, CNS 13438 CLASS B.							
	EMS	EN 55024 : EN 61000-4-2,3,4,5,6,8,11							
WEIGHT	N.W.: 0.19 kg								