

SWS50 SPECIFICATIONS

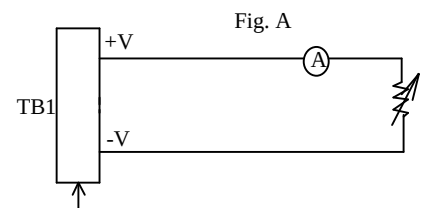
CA729-01-01C

ITEMS			MODEL	SWS50-3	SWS50-5	SWS50-12	SWS50-15	SWS50-24	SWS50-18
1	Nominal Output Voltage	V	3.3	5	12	15	24	18	
2	Maximum Output Current	A	10	10	4.3	3.5	2.1	2.8	
3	Maximum Output Power	W	33	50	51.6	52.5	50.4	50.4	
4	Efficiency (Typ) (115/230VAC) (* 1)	%	73 / 70	77 / 75	82 / 79	84 / 80	84 / 80	84 / 80	
5	Input Voltage Range (* 2, 3)	—	85 ~ 265VAC (47-63Hz) or 120 ~ 370VDC						
6	Input Current (Typ) (115/230VAC) (* 1)	A	0.7 / 0.5	1.2 / 0.6					
7	Inrush Current (Typ) (* 4)	—	20A at 115VAC, 40A at 230VAC, Ta=25°C, Cold Start						
8	Output Voltage Range	V	2.97~3.63	4.5~5.5	10.8~13.2	13.5~16.5	21.6~26.4	16.2~19.8	
9	Ripple and Noise (115/230VAC) (* 1, 5)	mV	80	80	80	100	100	100	
10	Line Regulation (* 5, 6)	mV	20	20	48	60	96	75	
11	Load Regulation (* 5, 7)	mV	40	50	96	120	144	130	
12	Temperature Coefficient	—	Less than 0.02%/°C						
13	Over Current Protection (* 8)	A	10.5~	10.5~	4.5~	3.7~	2.2~	3.0~	
14	Over Voltage Protection (* 9)	V	3.79~4.95	5.75~6.95	13.8~16.2	17.2~20.3	27.6~32.4	20.7~24.3	
15	Hold-Up Time (Typ) (115/230VAC) (* 1)	—	20ms / 160ms						
16	Leakage current (* 10)	—	1mA Max, 0.3mA(Typ) at 115VAC / 0.6mA(Typ) at 230VAC						
17	Series Operation	—	Possible						
18	Operating Temperature (* 11)	—	- 10 ~ + 60 °C (Refer to Output Derating Curve)						
19	Operating Humidity	—	30 ~ 90 %RH (No dewdrop)						
20	Storage Temperature	—	- 30 ~ +85°C						
21	Storage Humidity	—	10 ~ 95%RH (No dewdrop)						
22	Cooling	—	Convection cooling						
23	Withstand Voltage	—	Input - Output : 3.0kVAC (20mA), Input - FG : 2.0kVAC (20mA) Output - FG : 500VAC (100mA) for 1min.						
24	Isolation Resistance	—	More than 100MΩ at Ta=25°C and 70%RH, Output - FG : 500VDC						
25	Vibration	—	At no operating, 10 - 55Hz (sweep for 1min) 19.6m/s ² Constant, X, Y, Z 1hour each						
26	Safety (* 12)	—	Approved by UL60950-1, CSA60950-1, EN60950-1, EN50178						Not applied
27	EMI (* 1)	—	Built to meet FCC-Class B, EN55011/EN55022-B						
28	Immunity (* 1)	—	Built to meet EN61000-4-2,-3,-4,-5,-6,-8,-11						
29	Weight (Typ)	g	400						
30	Dimension	mm	37 x 92 x 159 (Refer to Outline Drawing)						

* Read instruction manual carefully , before using the power supply unit.

= NOTES=

- * 1 : At maximum output power, nominal input voltage, Ta = 25°C.
- * 2 : For cases where conformance to various safety specs (UL, CSA, EN) are required, to be described as 100 - 240VAC, 50 / 60Hz on name plate.
- * 3 : Please refer to Output Derating Curve for input voltage less than 100VAC (next page).
- * 4 : Not applicable for the in-rush current to Noise Filter for less than 0.2ms.
- * 5 : Please refer to Fig A for measurement of line & load regulation, ripple and noise voltage.
Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uF and 47uF capacitor.
- * 6 : 85 - 265VAC, constant load.
- * 7 : No load - Full load(Maximum power), constant input voltage.
- * 8 : Current limiting with automatic recovery.
Avoid to operate at overload or dead short for more than 30seconds.
- * 9 : OVP circuit will shutdown output, manual reset (Re power on).
- * 10 : Measured by each measuring method of UL, CSA, EN.
- * 11 : Refer to Output Derating Curve (next page) for details of output derating versus ambient temperature and mounting method .
- * 12 : SWS50-18 is designed to meet Safety standards.

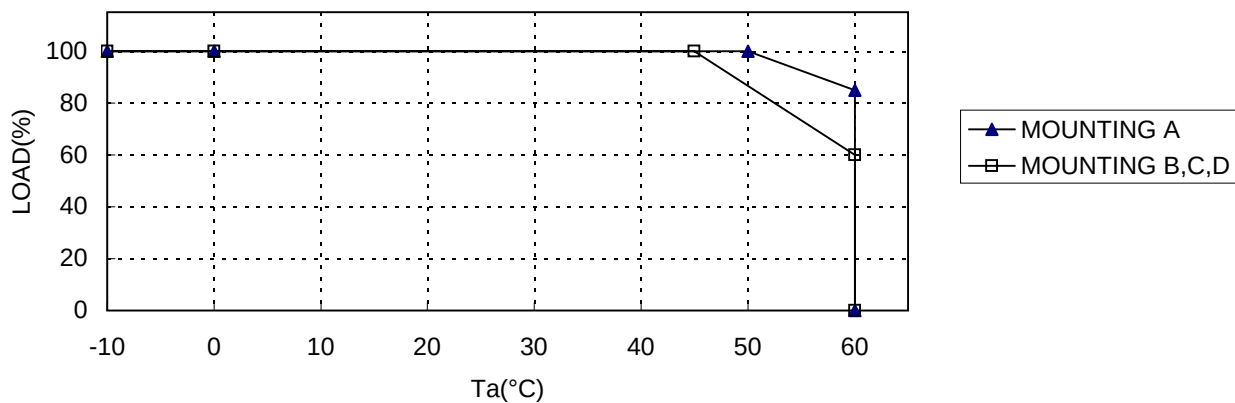


Measurement point for Vo Line/Load Regulation, and ripple and noise.

SWS50 OUTPUT DERATING

CA729-01-02B

SWS50-3,5,12,15,18,24 OUTPUT DERATING VS Ta CURVE
(CONVECTION COOLING)



SWS50-3,5,12,15,18,24 OUTPUT DERATING VS INPUT VOLTAGE

