

## SWS150 SPECIFICATIONS

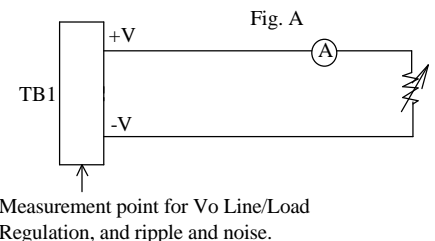
CA732-01-01A

ITEMS		MODEL	SWS150-3	SWS150-5	SWS150-12	SWS150-15	SWS150-24
1	Nominal Output Voltage	V	3.3	5	12	15	24
2	Maximum Output Current	A	30	30	12.5	10	6.3
3	Maximum Output Power	W	99	150	150	150	151.2
4	Efficiency (Typ) (115/230VAC) (* 1)	%	70 / 72	76 / 78	79 / 82	81 / 83	82 / 85
5	Input Voltage Range (* 2)	—	85 ~ 265VAC (47-63Hz) or 120 ~ 370VDC				
6	Input Current (Typ) (115/230VAC) (* 1)	A	1.3 / 0.7	1.8 / 0.9			
7	Inrush Current (Typ) (* 3)	—	16A at 115VAC, 32A at 230VAC, Ta=25°C, Cold Start				
8	PFHC	—	Built to meet EN61000-3-2				
9	Power Factor (Typ) (115/230VAC) (* 1)	—	0.99 / 0.95				
10	Output Voltage Range	V	2.97~3.63	4.5~5.5	10.8~13.2	13.5~16.5	21.6~26.4
11	Ripple and Noise (115/230VAC) (* 1, 4)	mV	100	100	100	100	150
12	Line Regulation (* 4, 5)	mV	20	20	48	60	96
13	Load Regulation (* 4, 6)	mV	40	40	96	120	144
14	Temperature Coefficient	—	Less than 0.02%/°C				
15	Over Current Protection (* 7)	A	31.5~	31.5~	13.1~	10.5	6.6~
16	Over Voltage Protection (* 8)	V	3.79~4.95	5.75~6.95	13.8~16.2	17.2~20.3	27.6~32.4
17	Hold-Up Time (Typ) (115/230VAC) (* 1)	—	20ms				
18	Leakage current (* 9)	—	0.75mA Max, 0.25mA(Typ) at 115VAC / 0.5mA(Typ) at 230VAC				
19	Series Operation	—	Possible				
20	Operating Temperature (* 10)	—	- 10 ~ + 60 °C (Refer to Output Derating Curve)				
21	Operating Humidity	—	30 ~ 90 %RH (No dewdrop)				
22	Storage Temperature	—	- 30 ~ +85°C				
23	Storage Humidity	—	10 ~ 95%RH (No dewdrop)				
24	Cooling	—	Convection cooling				
25	Withstand Voltage	—	Input - Output : 3.0kVAC (20mA), Input - FG : 2.0kVAC (20mA) Output - FG : 500VAC (100mA) for 1min.				
26	Isolation Resistance	—	More than 100MΩ at Ta=25°C and 70%RH, Output - FG : 500VDC				
27	Vibration	—	At no operating, 10 - 55Hz ( sweep for 1min ) 19.6m/s <sup>2</sup> Constant, X, Y, Z 1hour each				
28	Safety	—	Approved by UL60950, CSA60950, EN60950, EN50178				
29	EMI (* 1)	—	Built to meet FCC-Class B, EN55011/EN55022-B				
30	Immunity (* 1)	—	Built to meet EN61000-4-2,-3,-4,-5,-6,-8,-11				
31	Weight (Typ)	g	750				
32	Dimension	mm	51 x 99 x 198 (Refer to Outline Drawing)				

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

= NOTES=

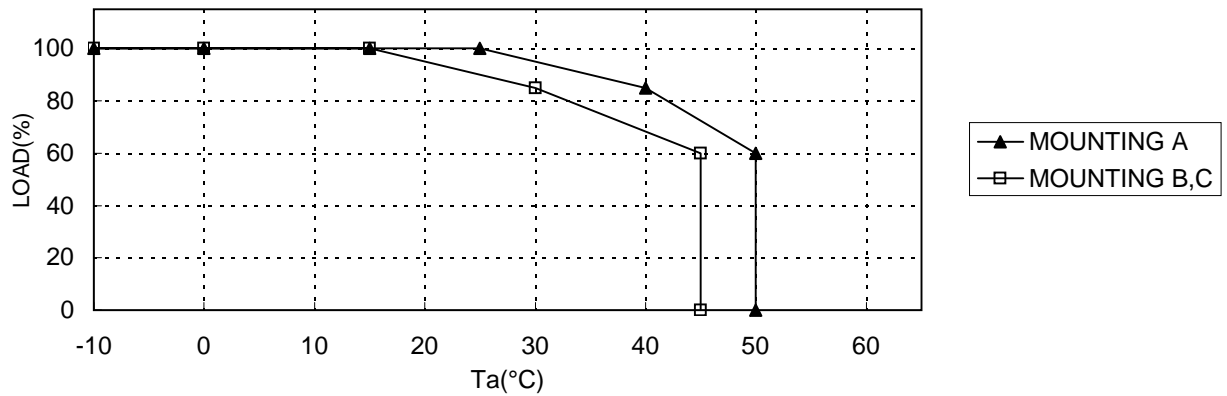
- \* 1 : At maximum output power, nominal input voltage, Ta = 25°C.
- \* 2 : For cases where conformance to various safety specs ( UL, CSA, EN ) are required, to be described as 100 - 240VAC, 50 / 60Hz on name plate.
- \* 3 : Not applicable for the in-rush current to Noise Filter for less than 0.2ms.
- \* 4 : 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.
- \* 5 : 85 - 265VAC, constant load.
- \* 6 : No load - Full load(Maximum power), constant input voltage.
- \* 7 : Constant current limit with automatic recovery.  
Avoid to operate at overload or dead short for more than 30seconds.
- \* 8 : OVP circuit will shutdown output, manual reset (Re power on).
- \* 9 : Measured by each measuring method of UL, CSA, EN.
- \* 10: Refer to Output Derating Curve (next page) for details of output derating versus ambient temperature and mounting method .



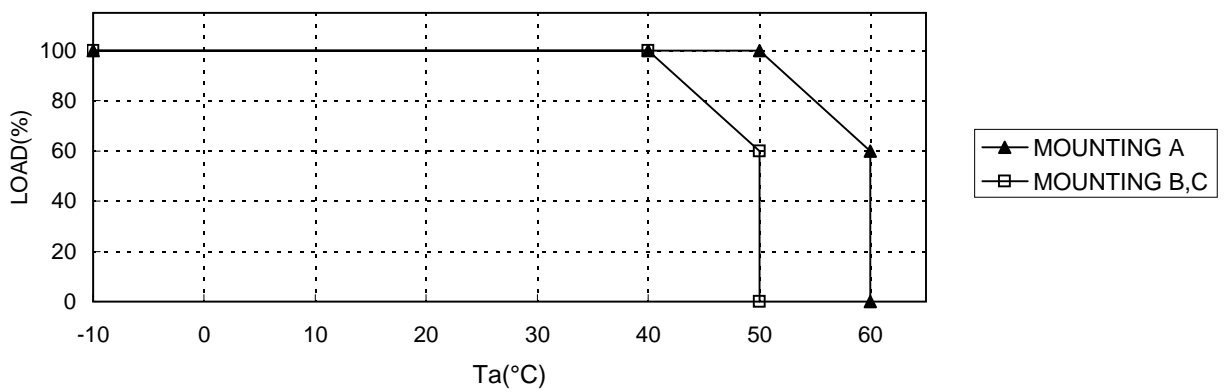
**SWS150 OUTPUT DERATING**

CA732-01-02A

SWS150-3,5 OUTPUT DERATING VS Ta CURVE (CONVECTION COOLING)



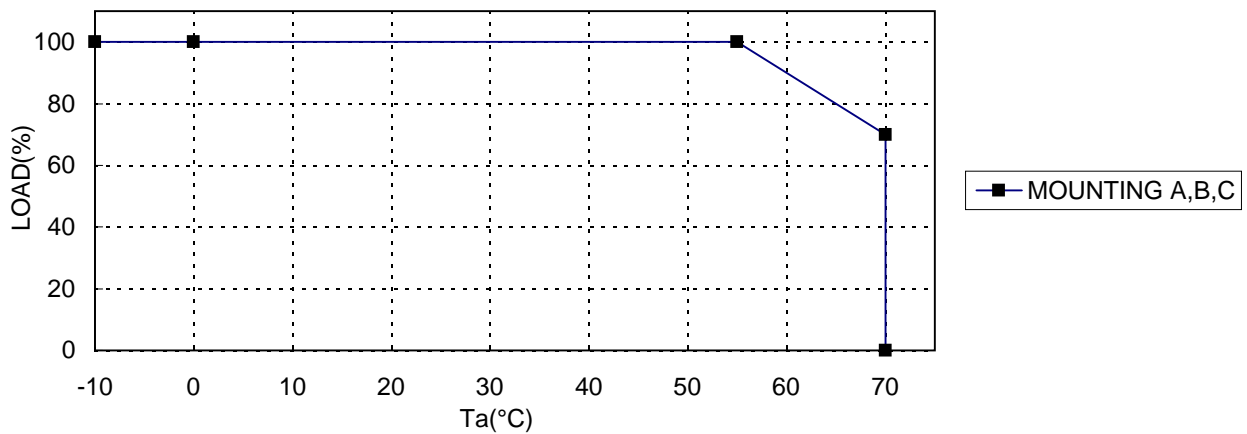
SWS150-12,15,24 OUTPUT DERATING VS Ta CURVE (CONVECTION COOLING)



**Force Air Cooling :**

Recommended minimum air velocity is 1.2m/s, flow through the component side of power supply

SWS150-3,5,12,15,24 OUTPUT DERATING VS Ta CURVE (FORCE AIR COOLING)



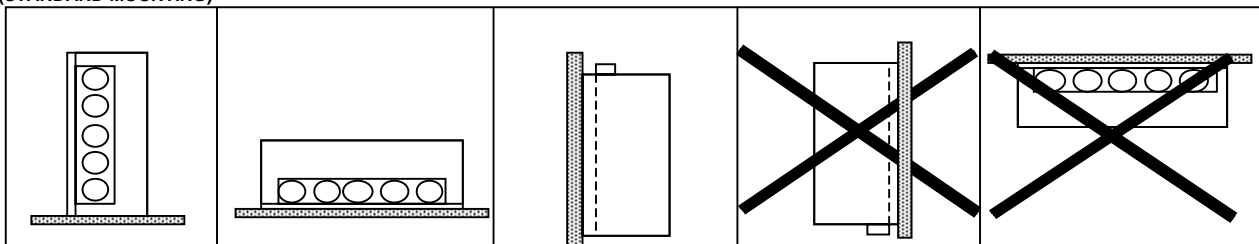
**MOUNTING A**  
(STANDARD MOUNTING)

**MOUNTING B**

**MOUNTING C**

**DON'T USE**

**DON'T USE**



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