

## SWS100 SPECIFICATIONS

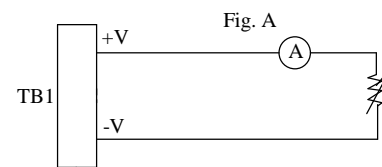
CA731-01-01A

ITEMS		MODEL	SWS100-3	SWS100-5	SWS100-12	SWS100-15	SWS100-24
1	Nominal Output Voltage	V	3.3	5	12	15	24
2	Maximum Output Current	A	20	20	8.5	6.7	4.3
3	Maximum Output Power	W	66	100	102	100.5	103.2
4	Efficiency (Typ) (115/230VAC) (* 1)	%	69 / 70	75 / 77	79 / 81	81 / 83	82 / 84
5	Input Voltage Range (* 2)	—	85 ~ 265VAC (47-63Hz) or 120 ~ 370VDC				
6	Input Current (Typ) (115/230VAC) (* 1)	A	0.9 / 0.5	1.2 / 0.6			
7	Inrush Current (Typ) (* 3)	—	16A at 115VAC, 32A at 230VAC, Ta=25oC, 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	21~	21~	8.9~	7.0~	4.5~
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	600				
32	Dimension	mm	45 x 96 x 188 (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.  
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 .

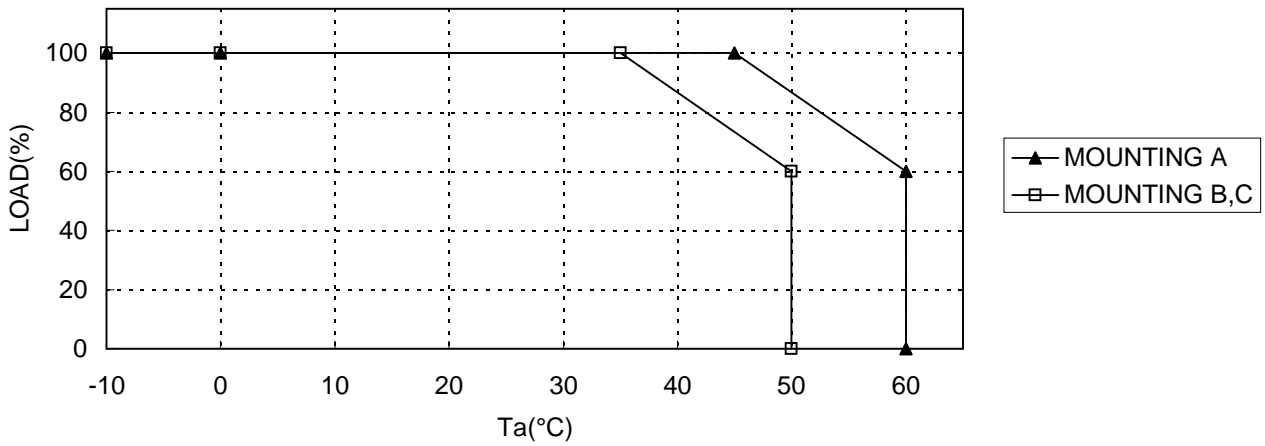


Measurement point for Vo Line/Load Regulation, and ripple and noise.

**SWS100 OUTPUT DERATING**

CA731-01-02A

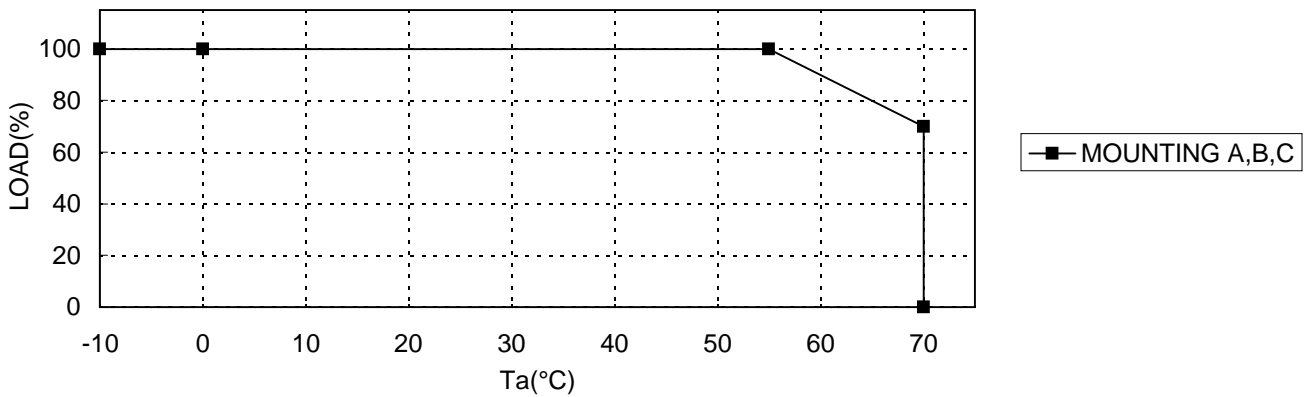
SWS100-3,5,12,15,24 OUTPUT DERATING VS Ta CURVE (CONVECTION COOLING)



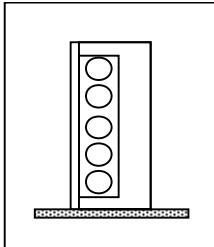
**Force Air Cooling :**

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

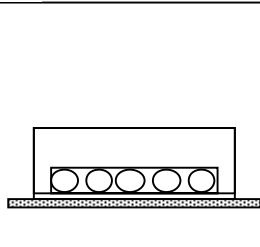
SWS100-3,5,12,15,24 OUTPUT DERATING VS Ta CURVE (FORCE AIR COOLING)



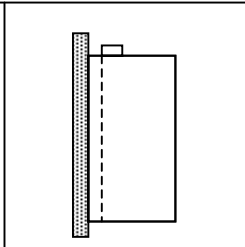
**MOUNTING A**  
(STANDARD MOUNTING)



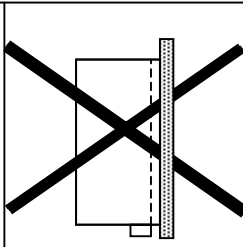
**MOUNTING B**



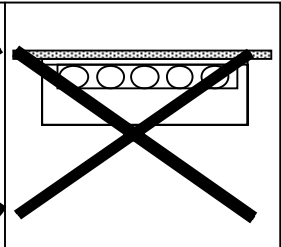
**MOUNTING C**



**DON'T USE**



**DON'T USE**



## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Switching Power Supplies](#) category:*

*Click to view products by [TDK-Lambda](#) manufacturer:*

Other Similar products are found below :

[70841011](#) [73-551-0005](#) [AAD600S-4-OP](#) [R22095](#) [HWS50A-5/RA](#) [KD0204](#) [9021](#) [S-15F-12](#) [LDIN100150](#) [LPM000-BBAR-01](#) [LPX17S-C](#)  
[EVS57-10R6/R](#) [FDC40-24S12](#) [FRV7000G](#) [22929](#) [CQM1IA121](#) [40370121900](#) [VI-PU22-EXX](#) [40370121910](#) [LDIN5075](#) [432703037161](#)  
[WRB01X-U](#) [LPX140-C](#) [08-30466-1040G](#) [09-160CFG](#) [70841004](#) [70841025](#) [VPX3000-CBL-DC](#) [LPM000-BBAR-05](#) [LPM000-BBAR-08](#)  
[LPM124-OUTA1-48](#) [LPM000-BBAR-07](#) [LPM109-OUTA1-10](#) [LPM616-CHAS](#) [08-30466-1055G](#) [08-30466-2175G](#) [DMB-EWG](#) [TVQF-](#)  
[1219-18S](#) [6504-226-2101](#) [CQM1IPS01](#) [XPFM201A+](#) [MAP80-4000G](#) [LFP300F-24-TY](#) [SMP21-L20-DC24V-5A](#) [VI-MUL-ES](#) [08-30466-](#)  
[0065G](#) [CME240P-24](#) [VI-RU031-EWWX](#) [08-30466-0028G](#) [S82Y-TS01](#)