

SWS300 SPECIFICATIONS

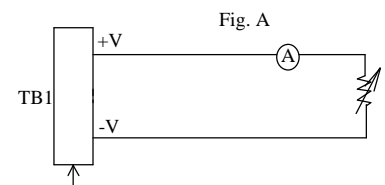
CA740-01-01C

ITEMS		MODEL	SWS300-3	SWS300-5	SWS300-12	SWS300-15	SWS300-24	SWS300-36	SWS300-48
1	Nominal Output Voltage	V	3.3	5	12	15	24	36	48
2	Maximum Output Current	A	55	55	26	21	13	8.7	6.7
3	Maximum Output Power	W	181.5	275	312	315	312	313.2	321.6
4	Efficiency (Typ) (115/230VAC) (* 1)	%	67 / 70	75 / 78	77 / 80	79 / 83	80 / 84	82 / 85	82 / 85
5	Input Voltage Range (* 2,10)	-	85 ~ 265VAC (47-63Hz) or 120 ~ 370VDC						
6	Input Current (Typ) (115/230VAC) (* 1)	A	2.5 / 1.3	3.2 / 1.6	3.6 / 1.8				
7	Inrush Current (Typ) (* 3)	-	20A at 115VAC, 40A 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	2.97~3.96	4.5~6.0	9.6~13.2	13.2~18.6	20~28.8	28.8~40	40~57.6
11	Ripple and Noise (115/230VAC) (* 1, 4)	mV	120	120	120	120	150	200	240
12	Line Regulation (* 4, 5)	mV	20	20	48	48	48	72	96
13	Load Regulation (* 4, 6)	mV	40	40	96	120	120	180	240
14	Temperature Coefficient	-	Less than 0.02%/°C						
15	Over Current Protection (* 7)	A	57.8~	57.8~	27.3~	22.1~	13.7~	9.2~	7.1~
16	Over Voltage Protection (* 8)	V	4.1~5.3	6.25~7.5	13.8~16.8	19.3~24.2	30.0~34.8	41.4~50.4	60.0~69.6
17	Over Temperature Protection (* 8)	-	Yes						
18	Hold-Up Time (Typ) (115/230VAC) (* 1)	-	20ms						
19	Leakage current (* 9)	-	0.75mA Max, 0.25mA(Typ) at 115VAC / 0.5mA(Typ) at 230VAC						
20	Series Operation	-	Possible						
21	Operating Temperature (* 10)	-	- 10 ~ + 65 °C						
22	Operating Humidity	-	30 ~ 90 %RH (No dewdrop)						
23	Storage Temperature	-	- 30 ~ +85°C						
24	Storage Humidity	-	10 ~ 95%RH (No dewdrop)						
25	Cooling	-	Forced Air By Blower Fan						
26	Withstand Voltage	-	Input - Output : 3.0kVAC (20mA), Input - FG : 2.0kVAC (20mA) Output - FG : 500VAC (100mA) for 1min.						
27	Isolation Resistance	-	More than 100MΩ at Ta=25°C and 70%RH, Output - FG : 500VDC						
28	Vibration	-	At no operating, 10 - 55Hz (sweep for 1min) 19.6m/s ² Constant, X, Y, Z 1hour each						
29	Safety	-	Approved by UL60950-1, CSA60950-1, EN60950-1, EN50178						
30	EMI (* 1)	-	Built to meet FCC-Class B, EN55011/EN55022-B						
31	Immunity (* 1)	-	Built to meet EN61000-4-2,-3,-4,-5,-6,-8,-11						
32	Weight (Typ)	g	950						
33	Dimension	mm	52 x 102 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.
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, OTP 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 input voltage, ambient temperature and mounting method .

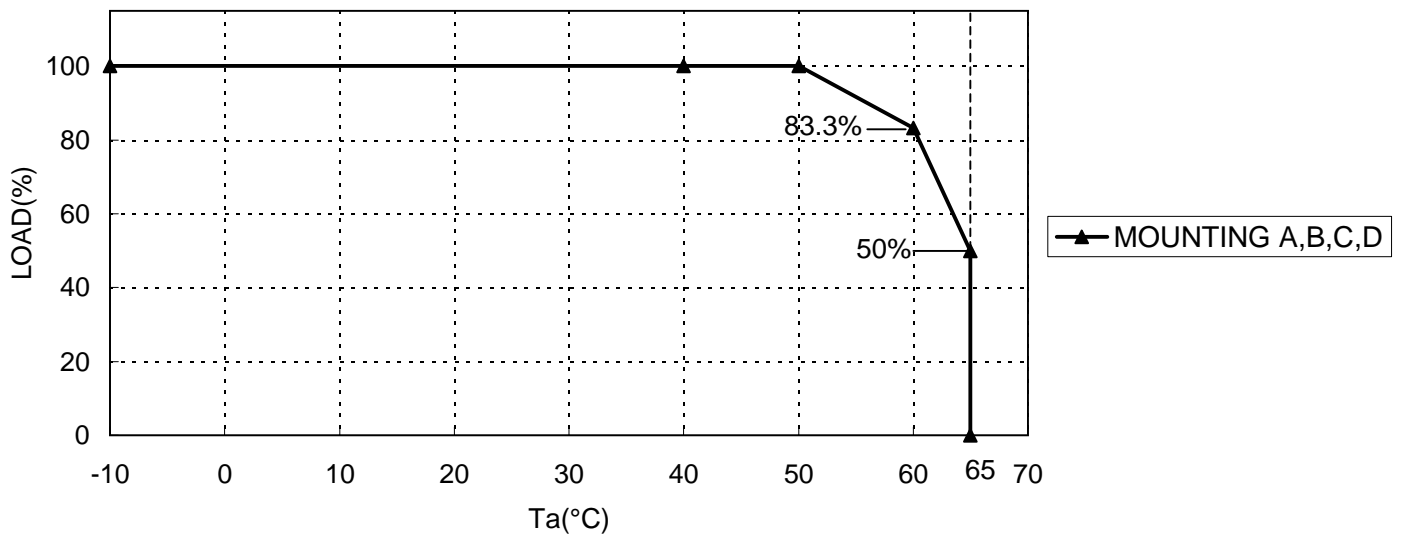


Measurement point for Vo Line/Load Regulation, and ripple and noise.

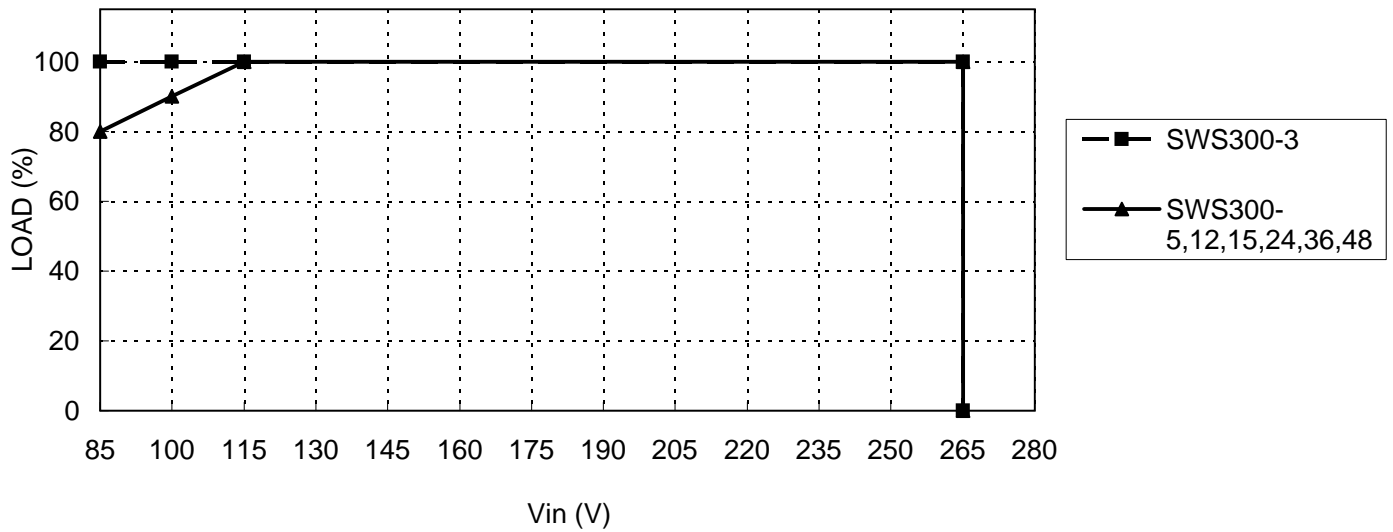
SWS300 OUTPUT DERATING

CA740-01-02A

SWS300 OUTPUT DERATING VS Ta CURVE



SWS300 OUTPUT DERATING VS INPUT VOLTAGE



MOUNTING A
(STANDARD MOUNTING)

MOUNTING B

MOUNTING C

MOUNTING D

DON'T USE

