

SWS300A SPECIFICATIONS

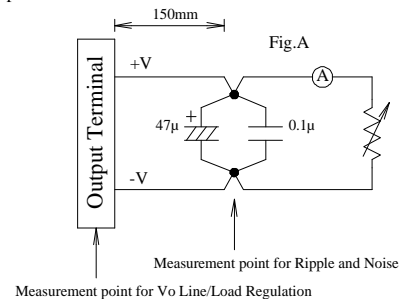
CA768-01-01A

ITEMS		MODEL	SWS300A -3	SWS300A -4	SWS300A -5	SWS300A -7R5	SWS300A -12	SWS300A -15	SWS300A -24	SWS300A -28	SWS300A -36	SWS300A -48
1	Nominal Output Voltage	V	3.3	4	5	7.5	12	15	24	28	36	48
2	Maximum Output Current	A	55	55	55	40	26	21	13	11	8.8	6.7
3	Maximum Output Power	W	181.5	220	275	300	312	315	312	308	316.8	321.6
4	Efficiency (Typ) (115/230VAC) (* 1)	%	69/72	72/75	75/78	77/80	79/83	80/84	82/85	83/86	83/87	83/86
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	2.8/1.4	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	3.6-4.8	4.5-6.0	6.0-9.0	9.6-13.2	13.2-18.6	20-28.8	22.4-33.6	28.8-40	40-57.6
11	Ripple and Noise (115/230VAC) (* 1, 4)	mV	120	120	120	120	120	120	150	150	200	240
12	Line Regulation (* 4, 5)	mV	20	20	20	30	48	48	48	56	72	96
13	Load Regulation (* 4, 6)	mV	40	40	40	60	96	120	120	140	180	240
14	Temperature Coefficient	-	Less than 0.02%/°C									
15	Over Current Protection (* 7)	A	57.8 ≤	57.8 ≤	57.8 ≤	42 ≤	27.3 ≤	22.1 ≤	13.7 ≤	11.6 ≤	9.2 ≤	7.1 ≤
16	Over Voltage Protection (* 8)	V	4.1-5.3	5.0-6.2	6.25-7.5	9.4-11.2	13.8-16.8	19.3-24.2	30.0-34.8	35.0-40.6	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 to + 65 °C									
22	Operating Humidity	-	30 to 90 %RH (No dewdrop)									
23	Storage Temperature	-	- 30 to +85°C									
24	Storage Humidity	-	10 to 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=

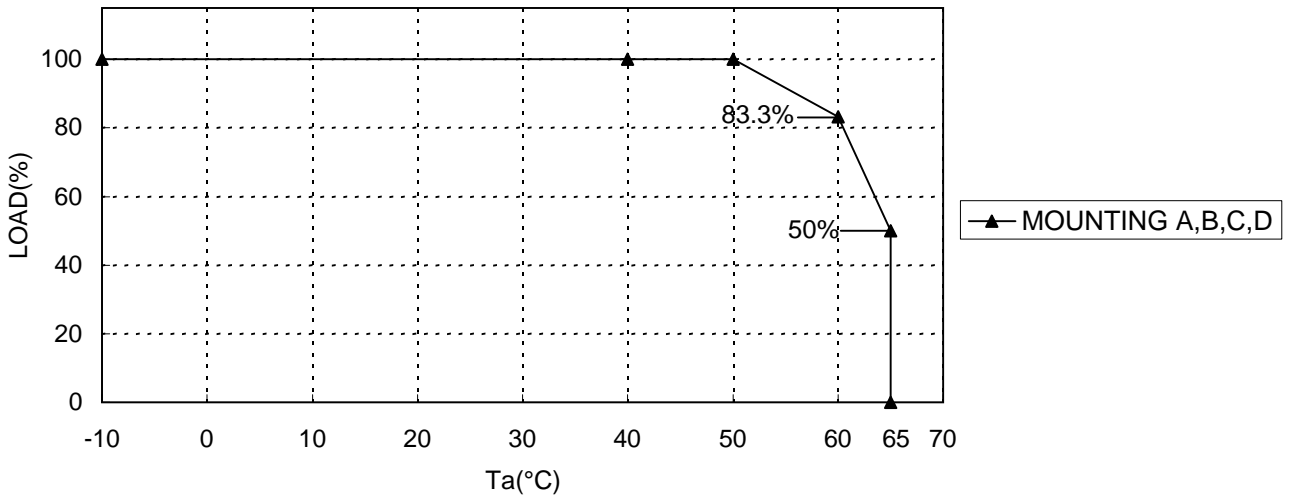
- * 1 : At maximum output power, nominal input voltage, Ta = 25°C.
- * 2 : For cases where conformance to various safety specs (UL, CSA, EN) are required, to be described as 100 - 240VAC, 50 / 60Hz on name plate.
- * 3 : Not applicable for the in-rush current to Noise Filter for less than 0.2ms.
- * 4 : Please refer to Fig A for measurement of line & load regulation, ripple and noise voltage.
Ripple & noise are measured at 20MHz by using a twisted pair of load wires 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 .



SWS300A OUTPUT DERATING

CA768-01-02

SWS300A OUTPUT DERATING VS Ta CURVE



SWS300A OUTPUT DERATING VS INPUT VOLTAGE

