

CA757-01-01D

ITEMS		MODEL	SWS600L-3	SWS600L-5	SWS600L-12	SWS600L-15	SWS600L-24	SWS600L-36	SWS600L-48	SWS600L-60
1	Nominal Output Voltage	V	3.3	5	12	15	24	36	48	60
2	Maximum Output Current ( Peak Output Current ) (* 1)	A	120	120	53	43	27 (31)	18	13 (15)	10
3	Maximum Output Power ( Peak Output Power ) (* 1)	W	396	600	636	645	648 (744)	648	624 (720)	600
4	Efficiency (Typ) (115/230VAC) (* 2)	%	70/72	75/77	79 / 82	79 / 82	81/84	82 / 84	82 / 84	82 / 84
5	Input Voltage Range (* 3)	-	85 ~ 265VAC (47-63Hz) or 120 ~ 350VDC							
6	Input Current (Typ) (115/230VAC) (* 2)	A	5.0 / 2.5		7.1 / 3.6					
7	Inrush Current (Typ) (* 4)	-	20A/40A at 115VAC, 40A/40A at 230VAC, Ta=25°C (first inrush/second inrush)							
8	PFHC	-	Designed to meet IEC61000-3-2							
9	Power Factor (Typ) (115/230VAC) (* 2)	-	0.98/0.95							
10	Output Voltage Range	V	2.64~3.96	4.0~6.0	9.6~14.4	12.0~19.5	19.2~28.8	28.8~43.2	38.4~56.0	48.0~66.0
11	Ripple and Noise (115/230VAC) (* 5)	0≤Ta≤74°C	mV	120	120	150	150	200	200	200
		-20≤Ta≤0°C	mV	160	160	180	180	240	240	240
12	Line Regulation (* 5, 6)	mV	20	20	48	60	96	144	192	240
13	Load Regulation (* 5, 7)	mV	30	30	72	90	144	216	288	360
14	Temperature Coefficient	-	Less than 0.02%/°C							
15	Over Current Protection (* 8)	A	126~	126~	55.7~	45.1~	31.3~	18.9~	15.2~	10.5~
16	Over Voltage Protection (* 9)	V	4.12~5.61	6.25~7.25	15.0~17.4	20.2~23.4	30.0~34.8	45.0~52.2	58.5~68.2	69.0~81.0
17	Hold-Up Time (Typ) (115/230VAC) (* 2)	-	20ms							
18	Leakage current (* 10)	-	Less than 0.75mA . 0.3mA (Typ) at 115VAC / 0.5mA (Typ) at 230VAC .							
19	Remote Sensing	-	Possible							
20	Remote ON/OFF control	-	Possible							
21	Monitoring Signal	-	ALM ( Open Collector Output )							
22	Parallel Operation	-	Possible							
23	Series Operation	-	Possible							
24	Operating Temperature (* 11)	-	- 20 ~ + 74 °C (-20°C ~ +50°C: 100%, +74°C: 50%) 100% load start up at -40°C							
25	Operating Humidity	-	20 ~ 90 %RH (No dewdrop)							
26	Storage Temperature	-	- 40 ~ +85°C							
27	Storage Humidity	-	10 ~ 95%RH (No dewdrop)							
28	Cooling	-	Forced air by build-in fan							
29	Withstand Voltage	-	Input - Output : 3.0kVAC (20mA), Input - FG : 2.0kVAC (20mA) Output - FG : 500VAC (100mA) (60V model: 651VAC, 130mA) Output - CNT/ALM/AUX : 100VAC (100mA) for 1min.							
30	Isolation Resistance	-	Input - FG, Input - Output and Output - FG: More than 50MΩ (500VDC) Output - CNT/ALM/AUX: More than 50MΩ (100VDC) at Ta=25°C and 70%RH							
31	Vibration (* 12)	-	Designed to meet MIL-STD-810F 514.5 Category 4, 10							
32	Shock (In package)	-	Designed to meet MIL-STD-810F 516.5 Procedure I, VI							
33	Safety (* 13)	-	Approved by UL62368-1, CSA62368-1, EN62368-1, UL60950-1, CSA60950-1, EN60950-1 (Expire date of 60950-1 : 20/12/2020), EN50178, EN61010-1; Designed to meet DENAN							
34	Line Dip	-	Designed to meet SEMI-F47 (200VAC line only)							
35	EMI	-	Designed to meet VCCI-B, FCC-B, EN55011/EN55032-B							
36	Immunity	-	Designed to meet EN61000-4-2 (Level 2,3), -3 (Level 3), -4 (Level 3), -5 (Level 3,4), -6 (Level 3), -8 (Level 4), -11							
37	Weight (Typ)	-	1.6kg							
38	Dimension (W x H x D)	mm	120 x 61 x 190 (Refer to Outline Drawing)							

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

= NOTES=

\* 1 : ( ) : Peak Output Current is possible at 170~265VAC input range , operating period at Peak Output Current is less than 10sec, duty less than 35% .

Average output power and current is less than Maximum Output Power and Maximum Output Current.

\* 2 : At Maximum Output Power, nominal input voltage, Ta = 25°C.

\* 3 : For cases where conformance to various safety specs ( UL, CSA, EN ) are required, to be described as 100 - 240VAC, 50 / 60Hz on name plate.

\* 4 : First/second inrush current, 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 twisted pair of load wires terminated with a 0.1uF and 47uF capacitor.

\* 6 : 85 - 265VAC, constant load.

\* 7 : No load - Full load ( Maximum power ), constant input voltage.

\* 8 : Constant current limit with automatic recovery.

Avoid to operate at overload or dead short for more than 30 seconds.

\* 9 : OVP circuit will shutdown output, manual reset (Remote ON/OFF control reset or Re-power on).

\* 10 Measured by each measuring method of UL, CSA, EN and DENAN (at 60Hz), Ta=25°C.

\* 11 Refer to Output Derating Curve (CA757-01-02 ) for details of output derating versus ambient temperature.

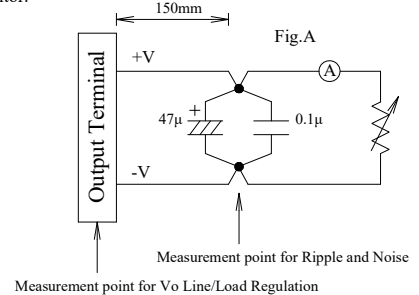
- Load (%) is percent of Maximum Output Power and Maximum Output Current ( Item 2 and 3).

Do not exceed derating of Maximum Output Power and Maximum Output Current.

- 100% load start up at -40°C is possible. However, it may not fulfil all the specifications.

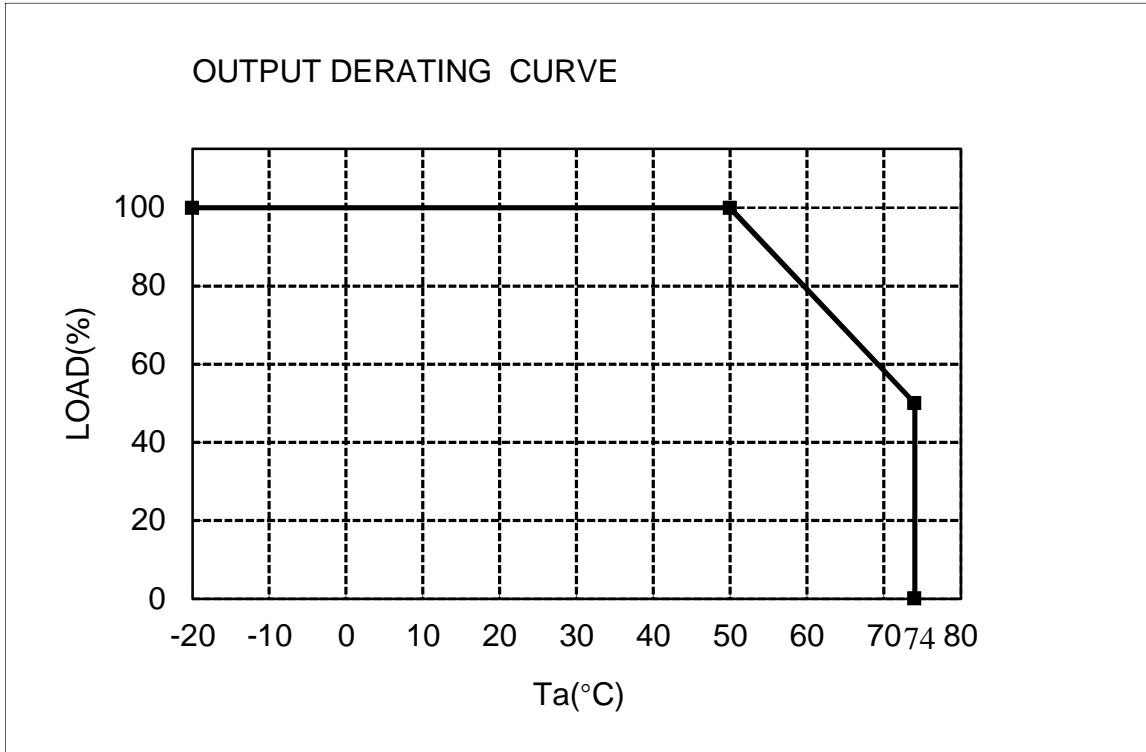
\* 12 Category 4 exposure levels: Trunk transportation over U.S. highways, Composite two-wheeled trailer.

\* 13 As for DENAN, designed to meet at 100VAC.

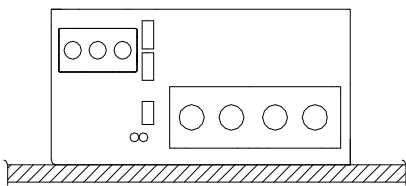


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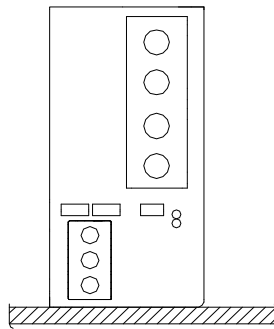
Ta(°C)	LOAD(%)
	Mounting A,B,C
-20~50	100%
74	50%



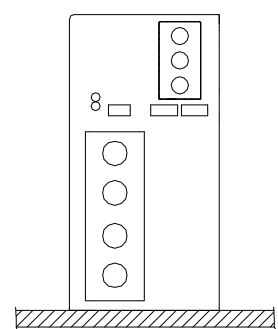
**Mounting A**



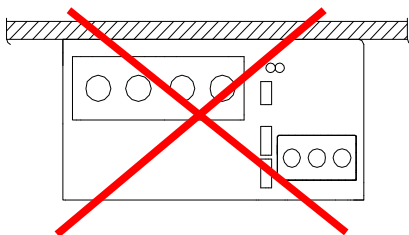
**Mounting B**



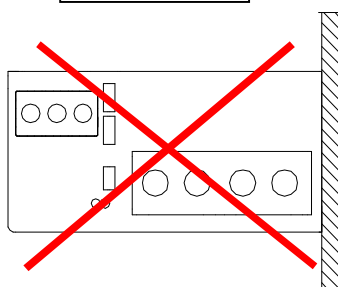
**Mounting C**



**Don't Use**



**Don't Use**



**Don't Use**

