

## SWS600L SPECIFICATIONS

CA757-01-01

ITEMS		MODEL	SWS600L-5	SWS600L-12	SWS600L-24
1	Nominal Output Voltage	V	5	12	24
2	Maximum Output Current ( Peak Output Current ) ( * 1 )	A	120	53	27 ( 31 )
3	Maximum Output Power ( Peak Output Power ) ( * 1 )	W	600	636	648 ( 744 )
4	Efficiency (Typ) (115/230VAC) ( * 2 )	%	75/77	79 / 82	81/84
5	Input Voltage Range ( * 3 )	—	85 ~ 265VAC (47-63Hz) or 120 ~ 350VDC		
6	Input Current (Typ) (115/230VAC) ( * 2 )	A	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	4.0~6.0	9.6~14.4	19.2~28.8
11	Ripple and Noise (115/230VAC) ( * 5 )	0≤Ta≤74°C	mV	120	150
		-20≤Ta≤0°C	mV	160	180
12	Line Regulation ( * 5, 6 )	mV	20	48	96
13	Load Regulation ( * 5, 7 )	mV	30	72	144
14	Temperature Coefficient	—	Less than 0.02%/°C		
15	Over Current Protection ( * 8 )	A	126~	55.7~	31.3~
16	Over Voltage Protection ( * 9 )	V	6.25~7.25	15.0~17.4	30.0~34.8
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), 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 UL60950-1, CSA60950-1, EN60950-1, EN50178 Designed to meet DENAN, EN61010-1		
34	Line Dip	—	Designed to meet SEMI-F47 (200VAC line only)		
35	EMI	—	Designed to meet VCCI-B, FCC-B, EN55011/EN55022-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 &amp; load regulation, ripple and noise voltage.

Ripple &amp; 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.

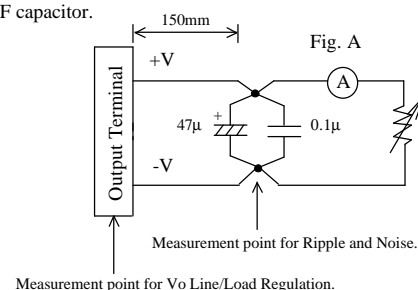
- Load (%) is percent of Maximum Output Power and Maximum Output Current ( Item 2 and 3).

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.

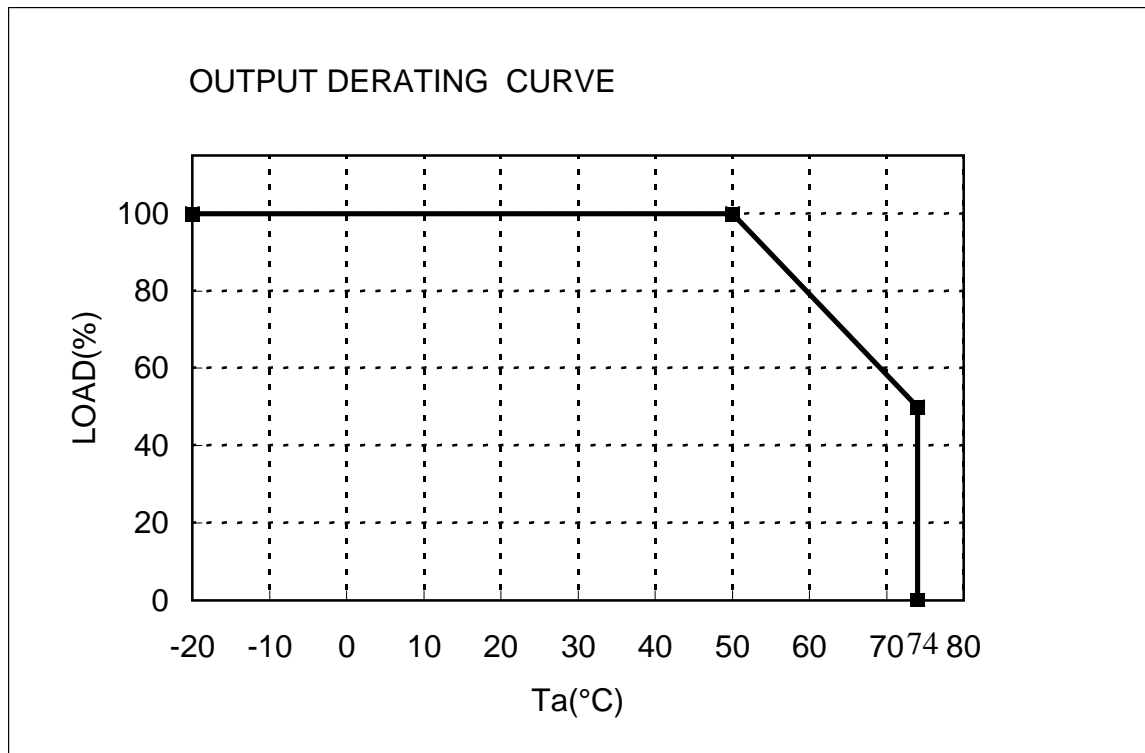
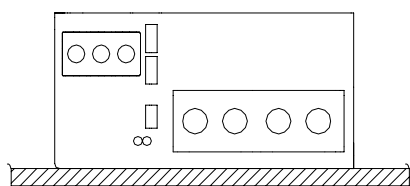
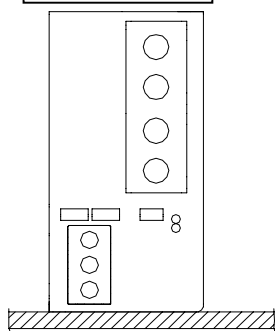
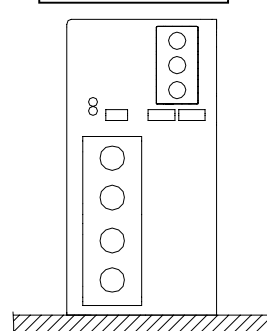
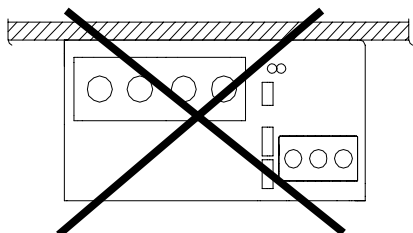
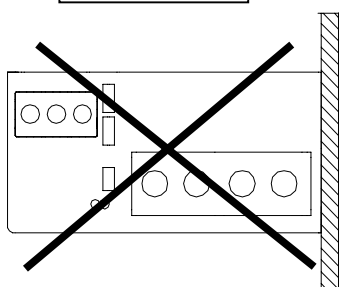
\* 13 : As for DENAN, designed to meet at 100VAC.



**SWS600L OUTPUT DERATING**

CA757-01-02

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**