SPECIFICATIONS

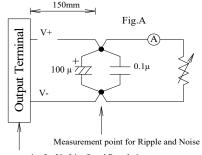
CA848-01-01/A-B

	MODEL ITEMS			CUS150M1-12/A	CUS150M1-18/A	CUS150M1-24/A	CUS150M1-36/A	CUS150M1-48/A	
1	Nominal Output Voltage		V	12	18	24	36	48	
2	Maximum Output Current		A	12.5	8.4	6.3	4.2	3.2	
3	Maximum Output Power		W	150.0	151.2	151.2	151.2	153.6	
4	Efficiency (Typ.)	115/230 VAC (*1)	%	92/93	90 / 91	91/92	92/93	92 / 93	
5	Input Voltage Range	(*2)	-	85 - 265 VAC (47-63Hz)					
6	Input Current (Typ.)	115/230 VAC (*1)	A		1.8/ 0.9				
7	In-rush Current (Typ.)	115/230 VAC (*1)(*3)	-	35A / 70A at Cold Start					
8	PFHC	110/230 (110 (1)(3)	-	Built to meet IEC61000-3-2,Class A					
9	Power Factor (Typ.)	115/230 VAC (*1)	-	0.98/0.94					
10	Output Voltage Range		V	11.7 ~ 12.6	17.6 ~ 18.9	23.5 ~ 25.2	35. 2~ 37.8	47~ 50.4	
11	Maximum Ripple & Noise	115/230 VAC (*1)(*4)(*5)	mV	180	180	240	360	480	
12	Maximum Line Regulation	(*4)(*6)	mV	60	90	120	180	240	
13	Maximum Load Regulation	(*4)(*7)	mV	120	180	240	360	480	
14	Temperature Coefficient	(*4)	-	Less than 0.02% / °C					
15	Over Current Protection	(*8)	A	> 13.2	> 8.9	> 6.7	>4.5	> 3.4	
16	Over Voltage Protection	(*9)	V	13.2 - 16.2	19.8 - 24.3	26.4 - 32.4	39.6 ~ 48.6	52.8 - 64.8	
17	Hold-up time (Typ.)	(*1)	-	20ms					
18	Leakage Current	(*10)	-	0.3mA max @ 265VAC,60Hz					
19	Parallel Operation		-	- · · · · · · · · · · · · · · · · · · ·					
20	Series Operation		-	Possible					
21	Operating Temperature	(*11)	-	-20°C - +60°C					
22	Operating Humidity		-	10 - 95%RH (No condensing)					
23	Storage Temperature		-	-40°C - +85°C					
24	Storage Humidity		-	10 - 95%RH (No condensing)					
25	Cooling		-	Convection Cooling					
	Withstand Voltage		-	Input-FG: 2kVAC (20mA) 1x MOPP					
26				Input-Output: 4kVAC (20mA) 2x MOPPs					
				Output-FG: 1.5kVAC (20mA) 1xMOPP					
27	Isolation Resistance		-	More than 100MΩ at 25°C,70%RH, Output - FG: 500VDC					
28	Vibration		-	At no operating, 10-55Hz (Sweep for 1min.)					
				Maximum 19.6m/s ² X,Y,Z 1 hour each					
29	Shock		-	Less than 196m/s ² and MIL-STD-810F					
30	Safety		-	Approved by IEC/EN62368-1,UL62368-1,CSA62368-1 Approved by IEC/EN60601-1,ES60601-1,CSA-C22.2 No.60601-1					
31	EMI	(*1)	_		Designed to meet EN55011-B, EN55032-B, FCC-Class B				
32	Immunity		1	Designed to meet IEC61000-4-2 (Level 2,3), IEC61000-4-3 (Level 3), IEC61000-4-4 (Level 3), IEC61000-4-5 (Level 3,4), IEC61000-4-6 (Level 3), IEC61000-4-8 (Level 4), IEC61000-4-11					
33	Weight (Typ.)	-	g	450					
34	Size (LxWxH)	·	mm	140 x 90 x 43 (Refer to Outline Drawing)					

- *Read instruction manual carefully, before using the power supply unit.
- *1.Ta=25°C, Nominal output voltage and maximum output power.
- *2. For cases where conformance to various safety specs (UL, CSA, EN) are required, input voltage range will be $100\sim240\text{VAC}$ (50-60Hz).
- Output derating required when Vin is less than 115VAC, refer to output derating curve for details. *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 Vo, line and load regulation and ripple voltage.
- *5. Ripple & noise are measured at 20MHz by using a 150mm twisted pair of load wires terminated with a 0.1uF and 100uF capacitor.
- *6. 85~265VAC, constant load.
- *7. No load full load, constant input voltage.
- *8. Hiccup with automatic recovery, however power supply may be latched for protection when output is shorted and manual reset is required (Repower on).
 - Avoid to operate at over load or short circuit condition for more than 30 seconds.
- *9. OVP circuit shut down the output, manual reset (Repower on) to get output voltage.
- *10. Measured by the each measuring method of UL, CSA, and EN (at 60Hz), Ta=25°C.
- *11. Refer to Output Derating Curve for details of output derating versus input voltage, ambient temperature and mounting method.
 - Load (%) is percent of maximum output power or maximum output current.

 - Do not exceed its derating of Maximum Load.

 maximum load start up at -40°C is possible. However, it may not fulfill all the specifications.



Measurement point for Vo Line/Load Regulation

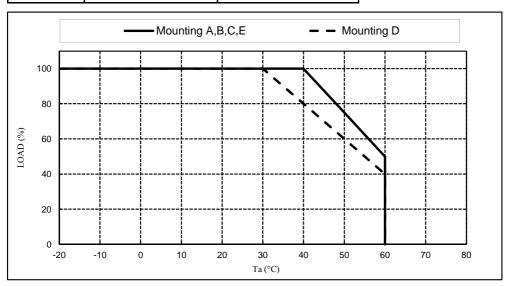
CA848-01-02/A

OUTPUT DERATING VERSUS OPERATING AMBIENT TEMPERATURE (Ta)

*COOLING : CONVECTION COOLING

FOR ALL MODELS

To (°C)	MOUNTING A,B,C,E	MOUNTING D		
Ta (°C)	LOAD (%)	LOAD (%)		
-20 - +30	100	100		
40	100	80		
50	75	60		
55	63	50		
60	50	40		



OUTPUT DERATING VERSUS INPUT VOLTAGE

(VAC)

FOR ALL MOUNTINGS AND ALL MODELS
INPUT VOLTAGE

			115~265		100			
	120							
	100							
	80							
LOAD (%)	60							
707	40							
	20							
	0	<u> </u>	115	145	175	205	235	265
		55	113		/in (VAC)	205	233	203

LOAD (%)

MOUNTING METHOD

