

CME150A

SPECIFICATIONS

CA865-01-01C

ITEMS		MODEL	CME150A-12	CME150A-18	CME150A-24	CME150A-36	CME150A-48
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.)	(*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.)	(*1) A	1.8/ 0.9				
7	In-rush Current (Typ.)	(*1)(*3) -	35A / 70A at Cold Start				
8	PFHC	-	Built to meet IEC61000-3-2,Class A				
9	Power Factor (Typ.)	(*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	(*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 - +70°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				
26	Withstand Voltage	-	Input-FG : 2kVAC (20mA) 1x MOPP Input-Output : 4kVAC (20mA) 2x MOPP 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) -	Design to meet EN55011-B, EN55032-B, FCC-Class B				
32	Immunity	-	Designed to meet IEC61000-6-2 IEC61000-4-2, IEC61000-4-3,IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC61000-4-8, IEC61000-4-11				
33	Line DIP	-	Designed to meet SEMI-F47 (200VAC Line only)				
34	Weight (Typ.)	g	310				
35	Size (L x W x H)	mm	127 x 76.2 x 34 (Refer to Outline Drawing)				

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

=NOTES=

*1. At 115VAC/230VAC, 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 ~ 240VAC (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.

*9. OVP circuit shut down the output, manual reset (Repower on) to get output voltage.

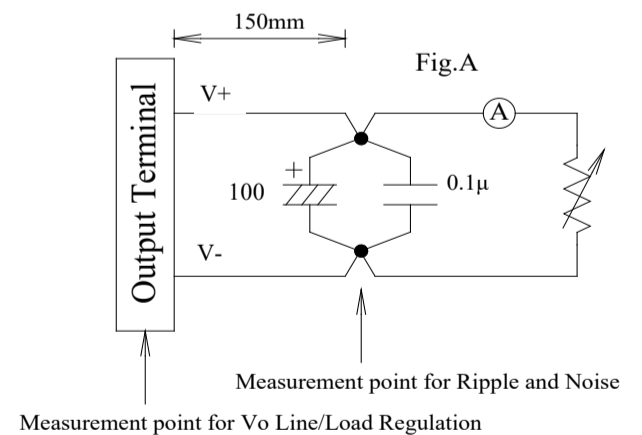
*10. Measured by the each measuring method of UL, CSA, and EN (at 60Hz), Ta=25°C.

*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.



OUTPUT DERATING

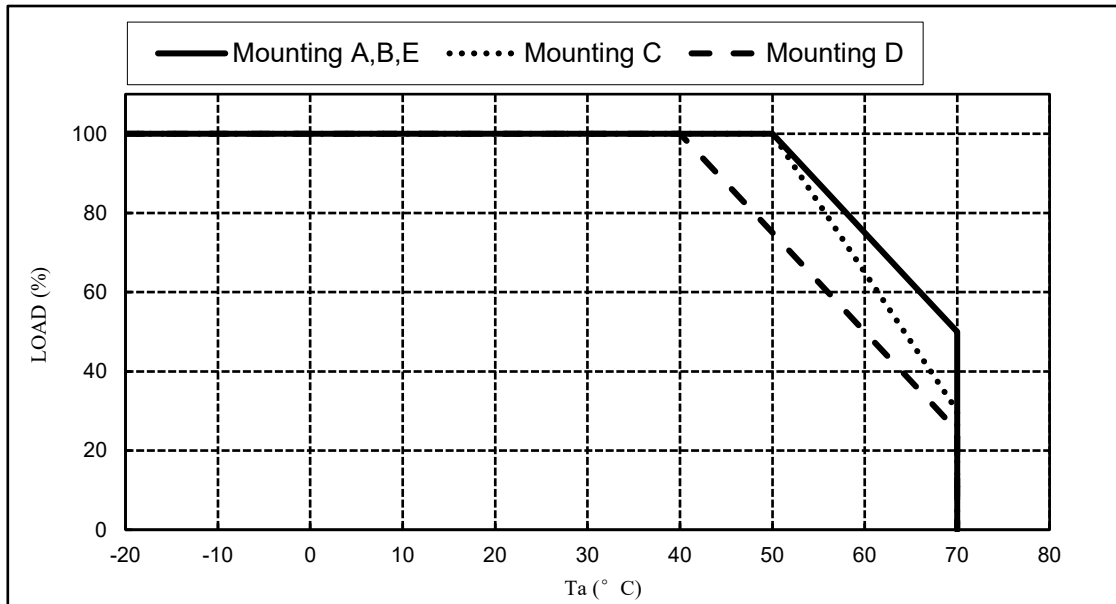
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OUTPUT DERATING VERSUS OPERATING AMBIENT TEMPERATURE (Ta)

*COOLING : CONVECTION COOLING

FOR ALL MODELS

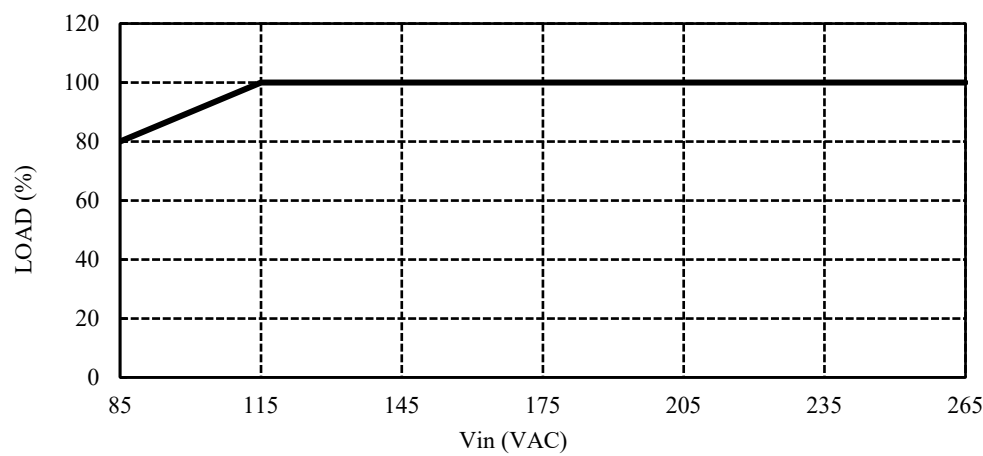
Ta (°C)	MOUNTING A,B,E	MOUNTING C	MOUNTING D
	LOAD (%)	LOAD (%)	LOAD (%)
-20 - +40	100	100	100
50	100	100	75
60	75	65	50
65	63	47.5	38
70	50	30	25



OUTPUT DERATING VERSUS INPUT VOLTAGE

FOR ALL MOUNTINGS AND ALL MODELS

INPUT VOLTAGE (VAC)	LOAD (%)
85	80
115~265	100



MOUNTING METHOD

