

CME30A

SPECIFICATIONS

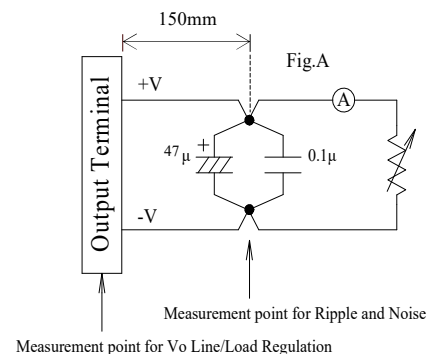
CA884-01-01B

ITEMS		MODEL	CME30A-12	CME30A-24
1	Nominal Output Voltage	V	12	24
2	Maximum Output Current	A	2.5	1.25
3	Maximum Output Power	W	30	30
4	Efficiency (Typ.)	(*) %	87 / 88	88 / 90
5	No Load Power Consumption	W	< 0.3 at 265VAC, Ta=25°C, Nominal Output Voltage	
6	Input Voltage Range	(*) -	85 - 265 VAC (47-63Hz)	
7	Input Current (Typ.)	(*) A	0.6 / 0.4	
8	Inrush Current (Typ.)	(*) A	30 / 60 at Cold Start	
9	Output Voltage Range	-	Fixed (shipment condition : ±2.5%)	
10	Maximum Ripple & Noise (Ta>0°C/Ta<=0°C)(*)(*)	mV	120 / 200	150 / 200
11	Maximum Ripple & Noise (0%~35% Load) (*)(*)	mV	280	280
12	Maximum Line Regulation	(*)(*) mV	48	96
13	Maximum Load Regulation	(*)(*) mV	120	192
14	Temperature Coefficient	(*) -	Less than 0.02% / °C	
15	Over Current Protection	(*) -	>105% of Maximum Output Current . Design to meet Class 2 limited power source	
16	Over Voltage Protection	(*) -	Above 115% ~ , shutdown	
17	Hold-up time (Typ.)	(*) ms	20 / 100	
18	Earth Leakage Current	(*) -	0.25mA max at 265VAC,60Hz	
19	Parallel Operation	-	No	
20	Series Operation	-	Possible	
21	Operating Temperature	(*) -	-20°C - +70°C	
22	Operating Humidity	-	10 - 90%RH (No condensing)	
23	Storage Temperature	-	-40°C - +85°C	
24	Storage Humidity	-	10 - 90%RH (No condensing)	
25	Isolation Class / Class of Protection	-	Class I (L,N,FG) or ClassII (L,N)	
26	Cooling	-	Convection Cooling	
27	Withstand Voltage	-	Input-Output : 4kVAC (20mA) 2xMOPP, Input-FG : 2kVAC (20mA) 1xMOPP, Output-FG : 1.5kVAC (20mA) 1xMOPP	
28	Isolation Resistance	-	More than 100MΩ at 25°C,70%RH, Output - FG : 500VDC	
29	Vibration	-	At no operating, 10-500Hz (Sweep for 1min.) Maximum 19.6m/s ² X,Y,Z 1 hour each	
30	Shock	-	Less than 196m/s ² , MIL-STD-810F	
31	Safety	-	Approved by IEC/EN62368-1, UL62368-1, CSA62368-1 Approved by IEC/EN60601-1, ES60601-1, CSA-C22.2 No.60601-1	
32	EMI	(*) -	Designed to meet EN55011-B, EN55032-B, FCC-Class B	
33	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, IEC60601-1-2 Ed.4	
34	Line DIP	-	Designed to meet SEMI-F47 at 200VAC only	
35	Weight (Typ.)	g	62	
36	Size (L x W x H)	mm	76.2 x 50.8 x 24.2 (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 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 47uF capacitor.
- *6. 85~265VAC, constant load.
- *7. No load - full load, constant input voltage.
- *8. Hiccup with automatic recovery. Avoid operating at over load or short circuit condition.
- *9. OVP circuit shut down the output, manual reset (Re power 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.



CME30A

OUTPUT DERATING

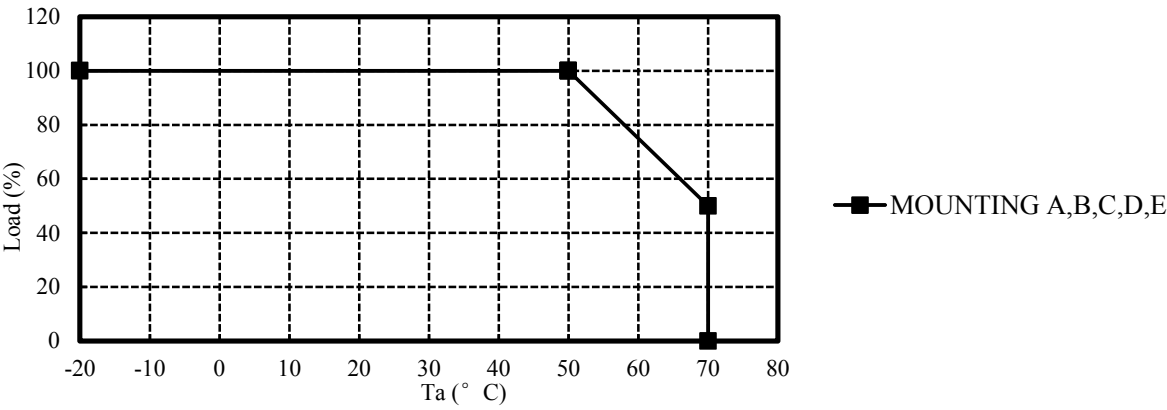
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OUTPUT DERATING VERSUS OPERATING AMBIENT TEMPERATURE(Ta)

1. CME30A-12,-24

* COOLING: CONVECTION COOLING

Ta (°C)	Load (%)
-20 - +50	100
70	50



CME30A

OUTPUT DERATING

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OUTPUT DERATING VERSUS INPUT VOLTAGE
CME30A-12,-24

Input Voltage (VAC)	Load (%)
85	80
115~265	100

