CME100A/CO

SPECIFICATIONS

CA846-01-01/CO-D

	ITEMS / MODEL		CME100A -5/CO	CME100A -12/CO	CME100A -15/CO	CME100A -18/CO	CME100A -24/CO	CME100A -28/CO	CME100A -36/CO	CME100A -48/CO
1	Nominal Output Voltage	V	5	12	15	18	24	28	36	48
2	Maximum Output Current @ Convection cooling	A	12	6.7	5.4	4.5	4.2	3.6	2.8	2.1
	Maximum Output Current @ Force air cooling	A	16	8.4	6.7	5.6				
3	Maximum Output Power @ Convection cooling	W	60.0	80.4	81.0	81.0	100.8	100.8	100.8	100.8
	Maximum Output Power @ Force air cooling	W	80.0	100.8	100.5	100.8				
4	Efficiency @ Convection cooling (Typ.) (*1)	%	83 / 84	87 / 89	88 / 89	88 / 89	88 / 90	88 / 90	88 / 90	88 / 90
	Efficiency @ Force air cooling (Typ.) (*1)	%	81 / 83	87 / 88	87 / 89	87 / 89				
5	Input Voltage Range (*2)	-	85 - 265 VAC (47-63Hz)							
6	Input Current @ Convection cooling (Typ.) (*1)	A	1.2 / 0.8	1.5 / 0.9			1.8 / 1.1			
	Input Current @ Force air cooling (Typ.) (*1)	A	1.5 / 0.9	1.8 / 1.1						
7	In-rush Current (Typ.) (*1)(*3)	A	30 / 60 at Cold Start							
8	Output Voltage Range	%	-10 / +10							
9	Maximum Ripple & Noise (*1)(*4)(*5)	mV	120	120	150	150	150	200	200	200
10	Maximum Ripple & Noise (0%-35% Load) (*4)(*5)	mV	240	280	280	280	280	400	400	480
11	Maximum Line Regulation (*4)(*6)	mV	20	48	60	72	96	112	144	192
12	Maximum Load Regulation (*4)(*7)	mV	40	96	120	144	192	224	288	384
13	No Load Power Consumption(Typ.)	-	< 0.5W @ 230VAC, 25°C, Nominal Output Voltage							
14	Temperature Coefficient (*4)	-	Less than 0.02% / °C							
15	Over Current Protection (*8)	A	>16.9	> 8.7	> 7.0	> 5.8	> 4.4	> 3.7	> 2.9	> 2.2
16	Over Voltage Protection (*9)	V	5.75 - 7.25	13.8 - 17.4	17.25 - 21.75	20.7 - 26.1	27.6 - 34.8	32.2 - 40.6	41.4 - 52.2	55.2 - 69.6
17	Hold-up time (Typ.) (*1)	ms	10 / 60							
18	Leakage Current (*10)	-	0.3mA max @265VAC, 60Hz							
19	Parallel Operation	-	No							
20	Series Operation	-	Possible							
21	Operating Temperature (*11)	-	-20°C to +70°C							
22	Operating Humidity	-	10 to 95%RH (No condensing)							
23	Storage Temperature	-	-40°C to +85°C							
24	Storage Humidity	-	10 to 95%RH (No condensing)							
25	Cooling (*12)	-	Convection or Force Air Cooling							
26	Withstand Voltage	-	Input-FG : 2kVAC (20mA) 1x MOPP Input-Output : 4kVAC (20mA) 2x MOPP Output-FG : 1.5kVAC (20mA) 1x MOPP							
27	Isolation Resistance	-	More than 100MΩ at 25°C,70%RH, Output - FG : 500VDC							
28	Vibration	-	At no operating, 10-500Hz (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	-	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	Weight (Typ.)	g	165							
34	Size (L x W x H)	mm	101.6 x 50.8 x 25.4 (Refer to Outline Drawing)							
35	Line DIP	-	Designed to meet SEMI-F47 (200VAC Line only)							

*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 0.1μF and 100μF 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.

*12. Force air cooling with air velocity more than 1.5m/s (measured at component side of PCB, air must flow through component side).

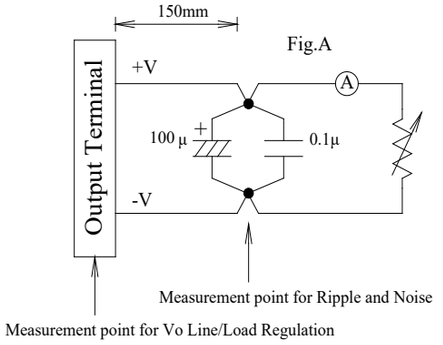

Fig.A