

**CME200A/CO****SPECIFICATIONS**

CA845-01-01/CO-D

ITEMS	MODEL	CME200A -12/CO	CME200A -18/CO	CME200A -24/CO	CME200A -36/CO	CME200A -48/CO
1 Nominal Output Voltage	V	12	18	24	36	48
2 Maximum Output Current @ Convection cooling	A	16.7	11.2	8.4	5.5	4.2
Maximum Output Current @ Forced air cooling (*12)	A	16.7	14.0	10.5	7.0	5.3
3 Maximum Output Power @ Convection cooling	W	200.4	201.6	201.6	198.0	201.6
Maximum Output Power @ Forced air cooling (*12)	W	200.4	252.0	252.0	252.0	254.4
4 Standby Mode Power	-			5V @ 0.5A(max)		
5 Efficiency @ Convection cooling (Typ.) (*1)	%	92 / 93	92 / 94	92 / 94	92 / 94	92 / 94
Efficiency @ Forced air cooling (Typ.) (*1)	%	92 / 93	92 / 94	92 / 94	92 / 94	92 / 94
6 Input Voltage Range (*2)	-			85 - 265 VAC (47-63Hz)		
7 Input Current @ Convection cooling (Typ.) (*1)	A			2.2 / 1.1		
Input Current @ Forced air cooling (Typ.) (*1)	A			3.0 / 1.5		
8 In-rush Current (Typ.) (*1)(*3)	-			35A / 70A at Cold Start		
9 PFHC	-			Built to meet IEC61000-3-2, Class A		
10 Power Factor (Typ.) (*1)	-			0.99/0.95		
11 Output Voltage Range	V	11.7 - 12.6	17.6 - 18.9	23.5 - 25.2	35.2 - 37.8	47.0 - 50.4
12 Maximum Ripple & Noise@ Convection cooling (*1)(*4)(*5)	mV	180	180	240	360	480
Maximum Ripple & Noise@ Forced air cooling (*1)(*4)(*5)	mV	180	200	240	360	480
13 Maximum Line Regulation (*4)(*6)	mV	60	90	120	180	240
14 Maximum Load Regulation (*4)(*7)	mV	120	180	240	360	480
15 Power Consumption @ Remote OFF(Typ.) (*13)	-			< 0.5W @ 230VAC		
16 Temperature Coefficient (*4)	-			Less than 0.02% / °C		
17 Over Current Protection (*8)	A	>17.5	>14.7	> 11.0	> 7.4	>5.5
18 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
19 Hold-up time (Typ.) (*1)	-			16ms @ 200W, 12ms @ 250W		
20 Leakage Current (*10)	-			0.3mA max @ 265VAC, 60Hz		
21 Remote ON/OFF control	-			Possible		
22 DC-OK	-			Possible		
23 Parallel Operation	-			-		
24 Series Operation	-			Possible		
25 Operating Temperature (*11)	-			-20°C to +70°C		
26 Operating Humidity	-			10 to 95%RH (No condensing)		
27 Storage Temperature	-			-40°C to +85°C		
28 Storage Humidity	-			10 to 95%RH (No condensing)		
29 Cooling (*12)	-			Convection or Forced Air Cooling		
30 Withstand Voltage	-			Input-FG : 2kVAC (20mA) 1x MOPP Input-Output : 4kVAC (20mA) 2x MOPP Output-FG : 1.5kVAC (20mA) 1x MOPP		
31 Isolation Resistance	-			More than 100MΩ at 25°C, 70%RH, Output - FG : 500VDC		
32 Vibration	-			At no operating, 10-55Hz (Sweep for 1min.) Maximum 19.6m/s <sup>2</sup> X,Y,Z 1 hour each		
33 Shock	-			Less than 196m/s <sup>2</sup> and MIL-STD-810F		
34 Safety	-			Approved by IEC/EN62368-1,UL62368-1,CSA62368-1 Approved by IEC/EN60601-1,ES60601-1,CSA-C22.2 No.60601-1		
35 EMI (*1)	-			Designed to meet EN55011-B, EN55032-B, FCC-Class B		
36 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		
37 Line DIP	-			Designed to meet SEMI-F47 (200VAC Line only)		
38 Weight (Typ.)	g			350		
39 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 0.1μF and 100μF 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.
- \*12. Forced air cooling with air velocity more than 1.5m/s (measured at component side, The entire components must be cooled).
- \*13. The power consumption refers to input power during remote off and standby mode power is at no load condition.

