CME350A

SPECIFICATIONS

CA847-01-01D

	ITEMS / MODEL			CME350A-12	CME350A-18	CME350A-24	CME350A-48
1	Nominal Output Voltage		V	12	18	24	48
2	Maximum Output Current @ Convection cooling		A	29	19.4	14.7	7.3
	Maximum Output Current @ Forced air cooling	(*13)	A	34.5	23	17.5	8.7
3	Maximum Output Power @ Convection cooling		W	348.0	349.2	352.8	350.4
	Maximum Output Power @ Forced air cooling	(*13)	W	414.0	414.0	420.0	417.6
4	Standby Mode Power		-	5V @ 0.5A(max)			
5	Efficiency @ Convection cooling(Typ.)	(*1)	%	91 / 93	91 / 94	91 / 94	91 / 94
	Efficiency @ Forced air cooling (Typ.)	(*1)(*13)	%	91 / 93	91 / 94	91 / 94	91 / 94
6	Input Voltage Range	(*2)	-	85 - 265 VAC (47-63Hz)			
7	Input Current(Typ. Convection cooling)	(*1)	A	4 / 2			
	Input Current(Typ. Forced air cooling)	(*1)(*13)	A	4.5 / 2.3			
8	Inrush Current (Typ.)	(*1)(*3)	-	20A / 40A 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		-	11.4 - 12.6	17.1 - 18.9	22.8 - 25.2	45.6 - 50.4
12	Maximum Ripple & Noise @ Convection cooling	(*1)(*4)(*5)	mV	120	180	240	480
	Maximum Ripple & Noise @ Forced air cooling	(*1)(*4)(*5)(*13)	mV	150	200	240	480
13	Maximum Line Regulation	(*4)(*6)	mV	60	90	120	240
14	Maximum Load Regulation	(*4)(*7)	mV	120	180	240	480
15	Power Consumption @ Remote OFF (Typ.)	(*12)	-	< 0.5W @ 230VAC			
16	Temperature Coefficient	(*4)	-	Less than 0.02% / ℃			
17	Over Current Protection	(*8)	A	>36	>24	> 18	>9
18	Over Voltage Protection	(*9)	V	13.8 - 16.2	20.7 - 24.3	27.6 - 32.4	55.2 - 64.8
19	Hold-up time (Typ.)	(*1)	-	18ms with maximum output power at Convection cooling			
20	Leakage Current	(*10)	-	0.3mA max @265VAC, 60Hz			
21	Remote ON/OFF control		-	Possible			
22	Remote Sense		-	Compensates for 0.5V maximum voltage drop (See Instruction Manual)			
23	Power Good		-	Possible Uncommitted opto isolated transistor, on @AC and DC are good Provides≥5ms warning (off) of loss of output from AC failure			
24	Parallel Operation		-	-			
25	Series Operation		-	Possible			
26	Operating Temperature	(*11)	-	-20℃- +60℃ (@ Convection cooling) , -20℃- +70℃ (@ Forced air cooling)			
27	Operating Humidity		-	10 - 95%RH (No condensing)			
28	Storage Temperature		-	-40℃ - +85℃			
29	Storage Humidity		-	10 - 95%RH (No condensing)			
30	Cooling		-	Convection or Forced air cooling			
31	Withstand Voltage		-	Input-FG : 2kVAC (20mA) 1x MOPP Input-Output : 4kVAC (20mA) 2x MOPP Output-FG : 1.5kVAC (20mA) 1x MOPP			
32	Isolation Resistance		-	More than 100MΩ at 25°C,70%RH, Output - FG : 500VDC			
33	Vibration		-	At no operating, 10-55Hz (Sweep for 1min.) Maximum 19.6m/s^2 X,Y,Z 1 hour each			
34	Shock		-	Less than 196m/s^2 and MIL-STD-810F			
35	Safety		-	Approved by IEC/EN62368-1, UL62368-1, CSA62368-1 Approved by IEC/EN60601-1, ES60601-1, CSA-C22.2 No.60601-1			
36	EMI @ Convection cooling	(*1)	-	Designed to meet EN55011-B, EN55032-B,FCC, CE:Class B, RE:Class A			
37	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			
38	Weight (Typ.)		g	850			
39	Size (L x W x H)		mm	190 x 87 x 40 (Refer to Outline Drawing)			
40	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℃, 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
Avoid to operate at over load or short circuit condition.

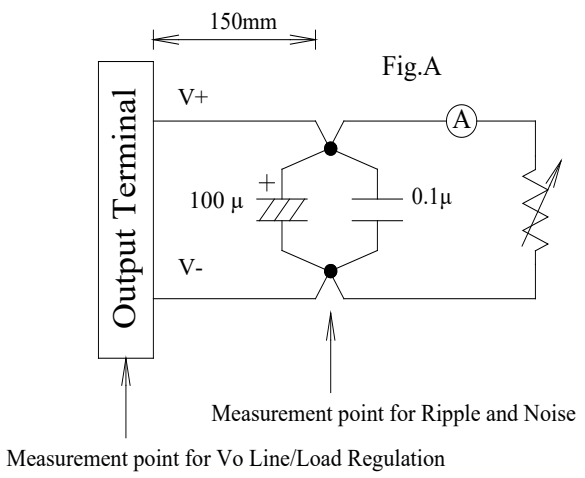
*9. OVP circuit shut down the output, manual reset (Repower on) to get output voltage.

*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.The power consumption refers to input power during remote off and standby mode power is at no load condition.

*13. Forced air cooling with air velocity more than 1.5m/s (measured at component side, air must flow through component side)



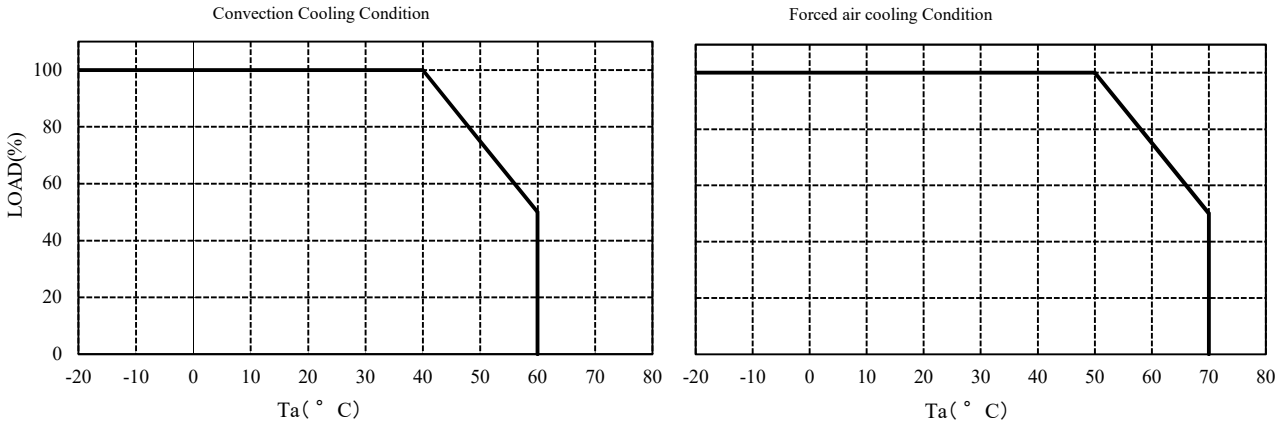
CME350A

OUTPUT DERATING

CA847-01-02A

OUTPUT DERATING VERSUS OPERATING AMBIENT TEMPERATURE (Ta)

Ta (°C)	LOAD (%) Covection cooling	LOAD (%) Forced air cooling
-20 - +40	100	100
50	75	100
60	50	75
70	-	50



OUTPUT DERATING VERSUS INPUT VOLTAGE

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