

CME60A/A

(/A : With cover and chassis option)

SPECIFICATIONS

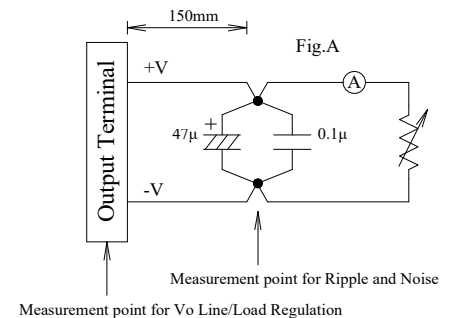
CA885-01-01/A-A

ITEMS			MODEL	CME60A -5/A	CME60A -12/A	CME60A -15/A	CME60A -18/A	CME60A -24/A	CME60A -48/A
1	Nominal Output Voltage	V	5	12	15	18	24	48	
2	Maximum Output Current	A	6	5.0	4.0	3.35	2.5	1.25	
3	Maximum Output Power	W	30.0	60.0	60.0	60.3	60	60	
4	Efficiency (Typ.)	(*1) %	81 / 81	87 / 88	87.5 / 87	88 / 88	89 / 90	90 / 91	
5	No Load Power Consumption	W	< 0.5 @ 265VAC , Ta=25°C, Nominal Output Voltage						
6	Input Voltage Range	(*2) -	85 - 265 VAC (47-63Hz)						
7	Input Current (Typ.)	(*1) A	0.7/ 0.5	1.2 / 0.8					
8	Inrush Current (Typ.)	(*1)(*3) A	30 / 60 at Cold Start						
9	Output Voltage	-	Fixed Shipment condition: 5V: ±3%; 12V,15V,18V,24V,48V: ±2.5%						
10	Maximum Ripple & Noise(Ta>0°C/Ta<=0°C)(*1)(*4)(*5)	mV	120 / 200	120 / 200	150 / 500	150 / 500	150 / 500	200 / 500	
11	Maximum Ripple & Noise (0%~35% Load) (*4)(*5)	mV	240	280	280	280	280	480	
12	Maximum Line Regulation (*4)(*6)	mV	20	48	60	72	96	192	
13	Maximum Load Regulation (*4)(*7)	mV	100	120	120	144	192	384	
14	Temperature Coefficient (*4) -	-	Less than 0.02% / °C						
15	Over Current Protection (*8) -	-	>105% of Maximum Output Current . 12V,15V,18V,24V Class 2 limited power source						
16	Over Voltage Protection (*9) -	-	Above 120% ~ , shutdown						
17	Hold-up time (Typ.) (*1) ms	ms	20 / 100						
18	Earth Leakage Current (*10) -	-	0.2mA max @265VAC,60Hz						
19	Parallel Operation	-	No						
20	Series Operation	-	Possible						
21	Operating Temperature (*11) -	-	-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)						
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 (*1) -	-	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	255						
36	Size (L x W x H)	mm	88.4 x 64 x 40.5 (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 100VAC, 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.



CME60A/A

OUTPUT DERATING

CA885-01-02/A

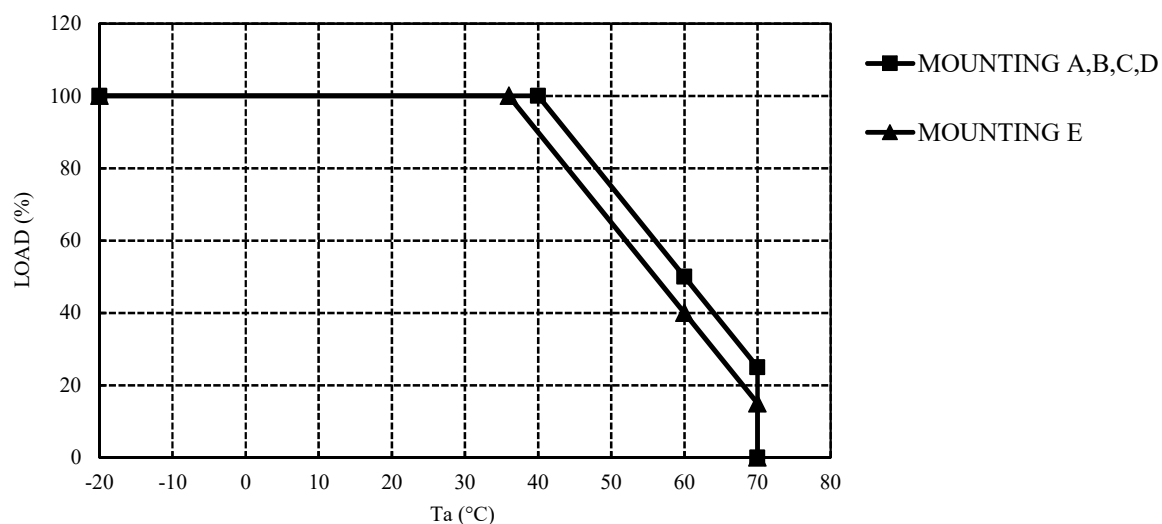
OUTPUT DERATING VERSUS OPERATING AMBIENT TEMPERATURE (Ta)

* COOLING: CONVECTION COOLING

1. CME60A-5/A,18/A,24/A,48/A

Ta(°C)	LOAD(%)
	MOUNTING A,B,C,D
-20~40	100
60	50
70	25

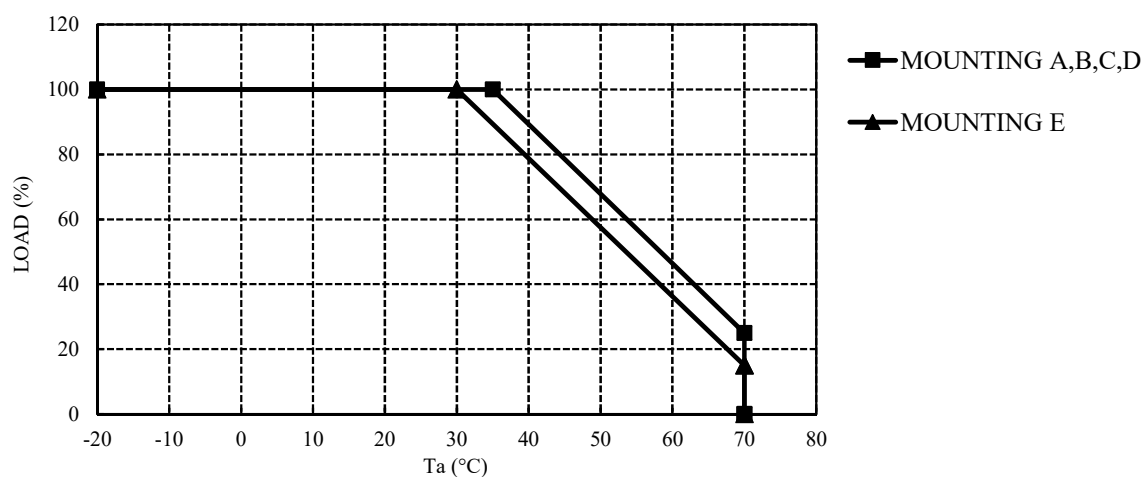
Ta(°C)	LOAD(%)
	MOUNTING E
-20~36	100
60	40
70	15



2. CME60A-12/A

Ta(°C)	LOAD(%)
	MOUNTING A,B,C,D
-20~35	100
70	25

Ta(°C)	LOAD(%)
	MOUNTING E
-20~30	100
70	15



CME60A/A

OUTPUT DERATING

CA885-01-03/A

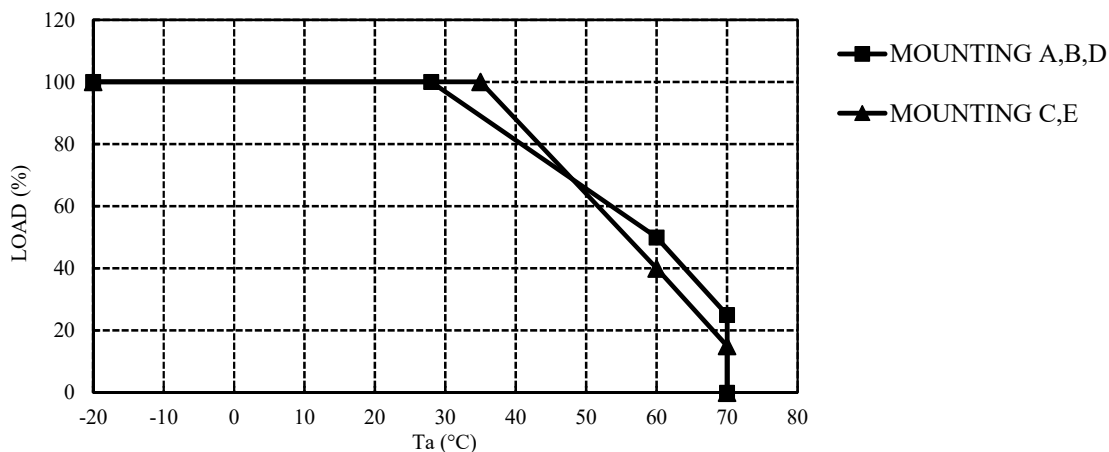
OUTPUT DERATING VERSUS OPERATING AMBIENT TEMPERATURE (Ta)

* COOLING: CONVECTION COOLING

3. CME60A-15/A

Ta (°C)	Load (%)
	Mounting A,B,D
-20 ~ +28	100
60	50
70	25

Ta (°C)	Load (%)
	Mounting C,E
-20 ~ +35	100
60	40
70	15



OUTPUT DERATING VERSUS INPUT VOLTAGE

* COOLING: CONVECTION COOLING

CME60A-5/A

Mounting A,B,C,D,E

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

CME60A-12/A,18/A,24/A,48/A

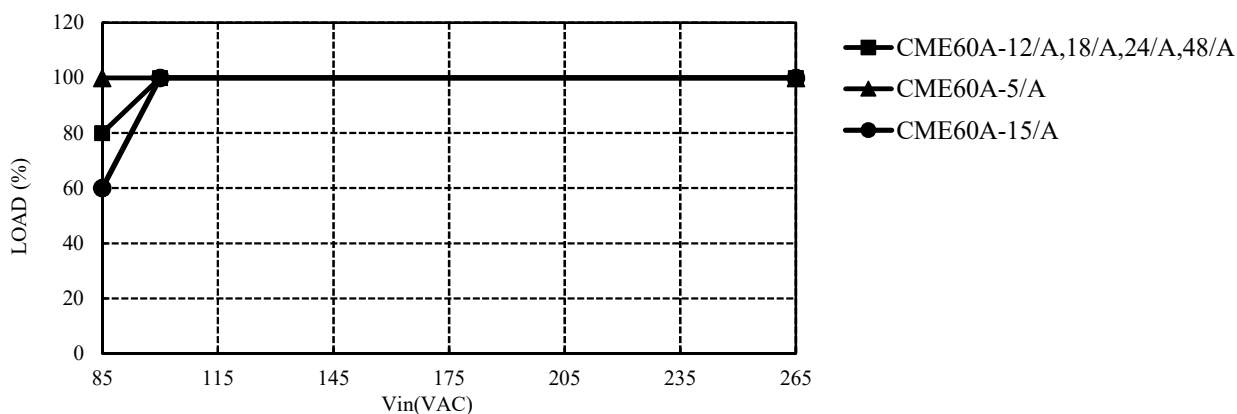
Mounting A,B,C,D,E

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

CME60A-15/A

Mounting A,B,C,D,E

INPUT VOLTAGE (VAC)	LOAD (%)
85	60
100~265	100



MOUNTING METHOD

