TDK-Lambda

CME30A/A

(/A : With Cover and Chassis option)

SPECIFICATIONS

CA884-01-01/A-A

	ITEMS / MODEL			CME30A-12/A	CME30A-24/A
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.)	(*1)	%	87 / 88	88 / 90
5	No Load Power Consumption		W	< 0.3 , Ta=25°C, Nominal Input and Output Voltage	
6	Input Voltage Range	(*2)	-	85 - 265 VAC (47-63Hz)	
7	Input Current (Typ.)	(*1)	A	0.6 / 0.4	
8	Inrush Current (Typ.)	(*1)(*3)	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)	(*1)(*4)(*5)	mV	120 / 200	150 / 200
11	Maximum Ripple & Noise (0%~35% Load)	(*4)(*5)	mV	280	280
12	Maximum Line Regulation	(*4)(*6)	mV	48	96
13	Maximum Load Regulation	(*4)(*7)	mV	120	192
14	Temperature Coefficient	(*4)	-	Less than 0.02% / °C	
15	Over Current Protection	(*8)	-	>105% of Maximum Output Current . Class 2 limited power source	
16	Over Voltage Protection	(*9)	-	Above 115% ~ , shutdown	
17	Hold-up time (Typ.)	(*1)	ms	20 / 100	
18	Earth Leakage Current	(*10)	-	0.25mA 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	200	
36	Size (L x W x H)		mm	88.4 x 64 x 35.6 (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.

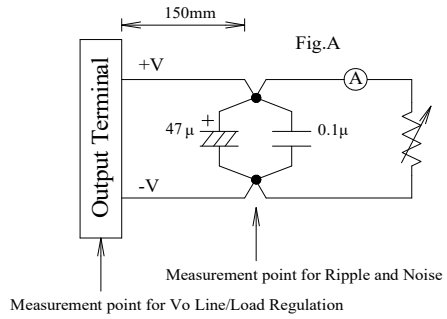


Fig.A

CME30A/A

OUTPUT DERATING

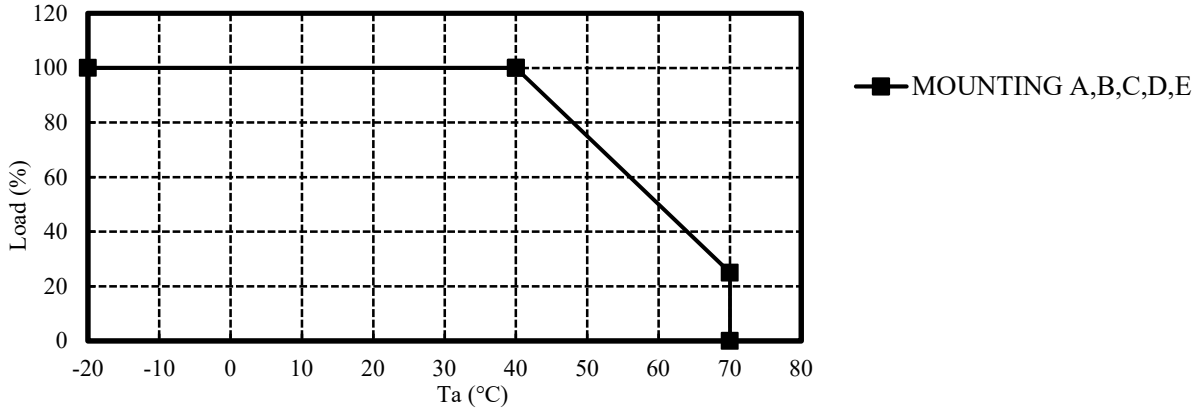
CA884-01-02/A

OUTPUT DERATING VERSUS OPERATING AMBIENT TEMPERATURE(Ta)

CME30A-12/A,-24/A

* COOLING: CONVECTION COOLING

Ta (°C)	Load (%)
-20 - +40	100
70	25



CME30A/A

OUTPUT DERATING

CA884-01-03/A

OUTPUT DERATING VERSUS INPUT VOLTAGE
CME30A-12/A,-24/A

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