

CUS30M/P

(/P:Solderable Pin option)

SPECIFICATIONS

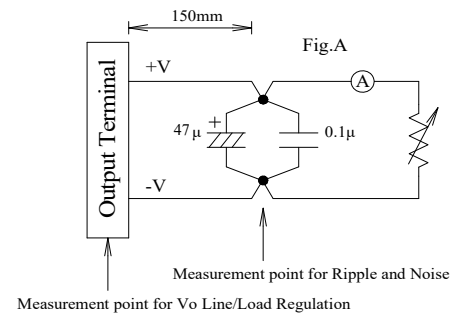
CA851-01-01/P-A

ITEMS		MODEL	CUS30M -12/P	CUS30M -15/P	CUS30M -18/P	CUS30M -24/P	CUS30M -36/P	CUS30M -48/P
1	Nominal Output Voltage	V	12	15	18	24	36	48
2	Maximum Output Current	A	2.5	2	1.7	1.25	0.84	0.63
3	Maximum Output Power	W	30	30	30.6	30	30.24	30.24
4	Efficiency (Typ.)	115/230 VAC (*1)	%	87 / 88	87 / 88	87 / 88	88 / 90	88 / 90
5	Active Average Efficiency related to Erp	115/230 VAC (*1)	%	87 / 87			88 / 89	
6	No Load Power Consumption	W	< 0.3 , Ta=25°C, Nominal Input and Output Voltage					
7	Input Voltage Range	(*2)	85 - 265 VAC (47-63Hz)					
8	Input Current (Typ.)	115/230 VAC (*1)	A					
9	Inrush Current (Typ.)	(*1)(*3)	A					
10	Output Voltage Range	-	Fixed (shipment condition : ±2.5%)					
11	Maximum Ripple & Noise(Ta>0°C/Ta<=0°C)(*1)(*4)(*5)	mV	120 / 200	150 / 200	150 / 200	150 / 200	200 / 300	200 / 300
12	Maximum Ripple & Noise (0%~35% Load)	(*4)(*5)	mV					
13	Maximum Line Regulation	(*4)(*6)	mV					
14	Maximum Load Regulation	(*4)(*7)	mV					
15	Temperature Coefficient	(*4)	-					
16	Over Current Protection	(*8)	-					
17	Over Voltage Protection	(*9)	-					
18	Hold-up time (Typ.)	115/230 VAC(*1)	ms					
19	Earth Leakage Current	(*10)	-					
20	Patient Leakage Current	-	-					
21	Parallel Operation	-	-					
22	Series Operation	-	-					
23	Operating Temperature	(*11)	-					
24	Operating Humidity	-	-					
25	Storage Temperature	-	-					
26	Storage Humidity	-	-					
27	Operating Altitude	-	-					
28	Isolation Class / Class of Protection	-	-					
29	Cooling	-	-					
30	Withstand Voltage	-	-					
31	Isolation Resistance	-	-					
32	Vibration	-	-					
33	Shock	-	-					
34	Safety	-	-					
35	Pollution	-	-					
36	EMI	(*1)	-					
37	Immunity	-	-					
38	Line voltage dip	-	-					
		-	-					
		-	-					
39	Weight (Typ.)	g	65					
40	Size (L x W x H)	inch	3 x 2 x 1.18 (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.
- Maximum load start up at -30°C is possible. However, it may not fulfill all the specifications.



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OUTPUT DERATING

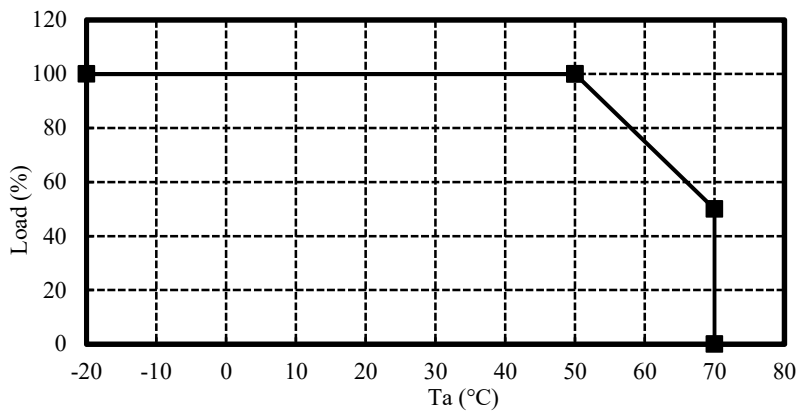
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OUTPUT DERATING VERSUS OPERATING AMBIENT TEMPERATURE(Ta)

1. CUS30M-12/P,15/P,24/P,36/P

* COOLING: CONVECTION COOLING

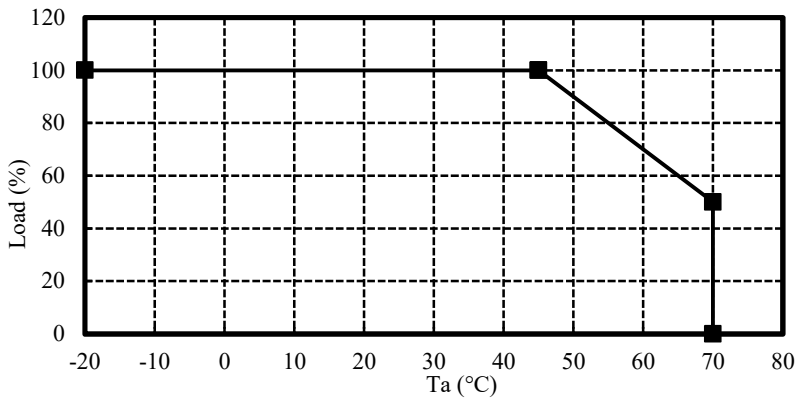
Ta (°C)	Load (%)
-20 - +50	100
70	50



2. CUS30M-18/P,48/P

* COOLING: CONVECTION COOLING

Ta (°C)	Load (%)
-20 - +45	100
70	50



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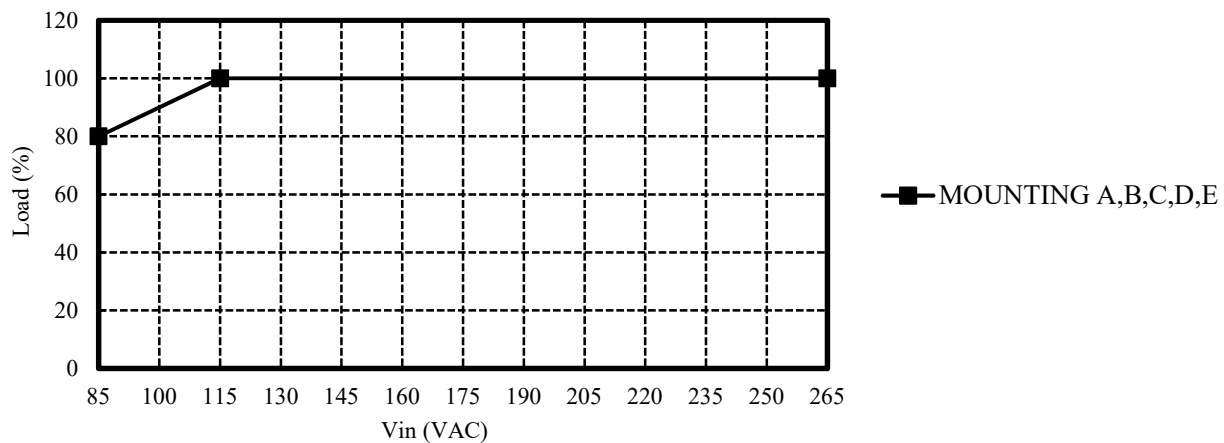
OUTPUT DERATING

CA851-01-03/P-A

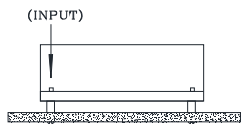
OUTPUT DERATING VERSUS INPUT VOLTAGE

CUS30M-12/P,15/P,18/P,24/P,36/P,48/P

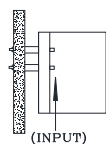
Input Voltage (VAC)	Load (%)
85	80
115~265	100



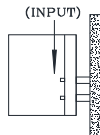
MOUNTING A
(STANDARD MOUNTING)



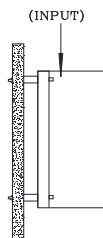
MOUNTING B



MOUNTING C



MOUNTING D



MOUNTING E

