

CUS800M

SPECIFICATIONS

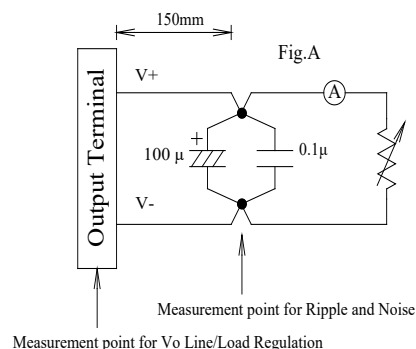
CA969-01-01A

ITEMS		MODEL	CUS800M-12	CUS800M-24	CUS800M-36	CUS800M-48
1	Nominal Output Voltage	V	12	24	36	48
2	Maximum Output Current	A	56.7	33.4	22.2	16.7
	Peak Output Current	(*13) A	66.7	33.4	22.2	16.7
3	Maximum Output Power	W	680.4	801.6	799.2	801.6
	Peak Output Power	(*13) W	800.4	801.6	799.2	801.6
4	Standby Supply	(*14) -	5V @ 2A(max)			
5	Efficiency (Typ.)	(*12) %	90.8 / 92.5	92.0/ 94.0	92.5/ 94.6	92.2 / 94.0
6	Input Voltage Range	(*2)	85 - 265 VAC (47-63Hz)			
7	Input Current (Typ.)	(*1) A	6.8 / 3.5	8.0 / 4.0		
8	In-rush Current (Typ.)	(*1)(*3) -	25A / 50A 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	(*1)(*4) V	11.7~12.6	23.4 ~ 25.9	35.1 ~ 38.8	46.8 ~ 51.8
12	Maximum Ripple & Noise	(*1)(*4)(*5) mV	240	360	480	480
13	Maximum Line Regulation	(*4)(*6) mV	60	120	180	240
14	Maximum Load Regulation	(*4)(*7) mV	120	240	360	480
15	Temperature Coefficient	(*4) -	Less than 0.02% / °C			
16	Over Current Protection	(*8) A	>70.1	>35.1	>23.4	>17.6
17	Over Voltage Protection	(*9) V	13.8 ~ 16.2	27.6 ~ 32.4	41.4 ~ 48.6	55.2 ~ 64.8
18	Hold-up time (Typ.)	(*1) -	11ms			
19	Leakage Current	(*10) -	0.25mA max @ 265VAC, 60Hz			
20	Remote ON/OFF control	(*13) -	Possible			
21	Power Good	(*13) -	Possible			
22	Parallel Operation	-	-			
23	Series Operation	(*13) -	Possible			
24	Operating Temperature	(*11) -	-20°C ~ +70°C			
25	Operating Humidity	-	10 - 95%RH (No condensing)			
26	Storage Temperature	-	-40°C ~ +75°C			
27	Storage Humidity	-	10 - 95%RH (No condensing)			
28	Cooling	-	Forced air by build-in intake fan			
29	Withstand Voltage	-	Input-FG : 2kVAC (20mA) 1x MOPP Input-Output : 4kVAC (20mA) 2x MOPP Output-FG : 1.5kVAC (20mA) 1x MOPP			
30	Isolation Resistance	-	More than 100MΩ at 25°C,70%RH, Output - FG : 500VDC			
31	Vibration	-	At no operating, 10-55Hz (Sweep for 1min.) Maximum 19.6m/s ² X,Y,Z 1 hour each			
32	Shock	-	Less than 196m/s ²			
33	Safety	-	Approved by IEC/EN62368-1,UL62368-1,CSA62368-1 Approved by IEC/EN60601-1, ES60601-1,CSA-C22.2 No.60601-1			
34	EMI	(*1) -	Designed to meet EN55011-B, EN55032-B, FCC-Class B			
35	Immunity	(*15) -	Designed to meet IEC60601-1-2 Ed.4.1, IEC61000-4-2, -3, -4, -5, -6, -8, -11			
36	Weight (Typ.)	g	810			
37	Size (L x W x H)	mm	167 x 85 x 42.5 (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 90VAC, 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,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 resume 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, output voltage and ambient temperature .
- Load (%) is percent of maximum output power or maximum output current.
- Do not exceed its derating of Maximum Load for both Main Output Channel and Standby Supply.
- *12. At 115VAC/230VAC, Ta=25°C Nominal output voltage and maximum output power, and Standby Supply at no load.
- *13. Refer to Instruction Manual for details.
- *14. Please refer to various output derating curves for Standby Supply.
- *15. Refer to Immunity Test Data for details.



OUTPUT DERATING

CA969-01-02

MAIN OUTPUT DERATING VERSUS OPERATING AMBIENT TEMPERATURE (Ta)

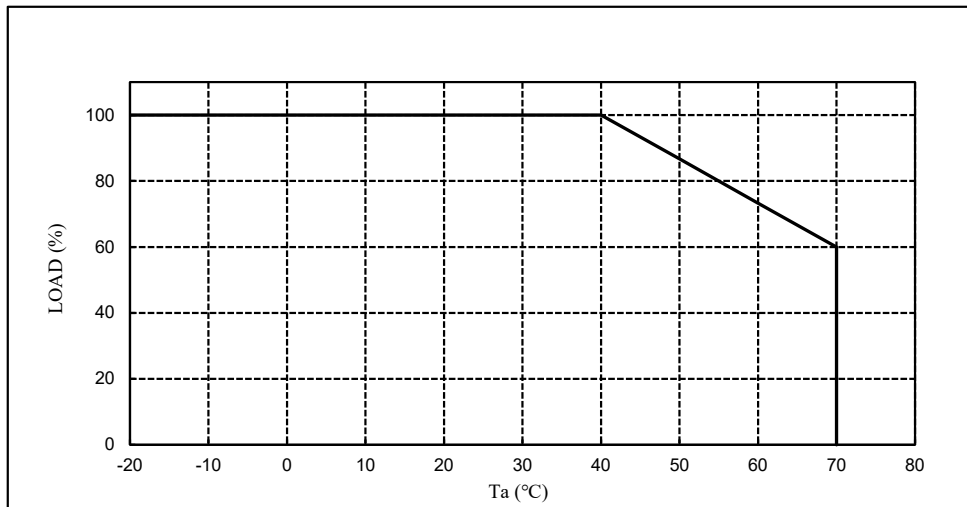
Output derating versus input voltage should be considered. Please refer to the output derating versus input voltage curve for detail.

Load (%) is percent of maximum output power or maximum output current.

If output voltage is raised higher than nominal, maximum power derating versus high output voltage should be considered.

MODEL: CUS800M-12/24/36/48

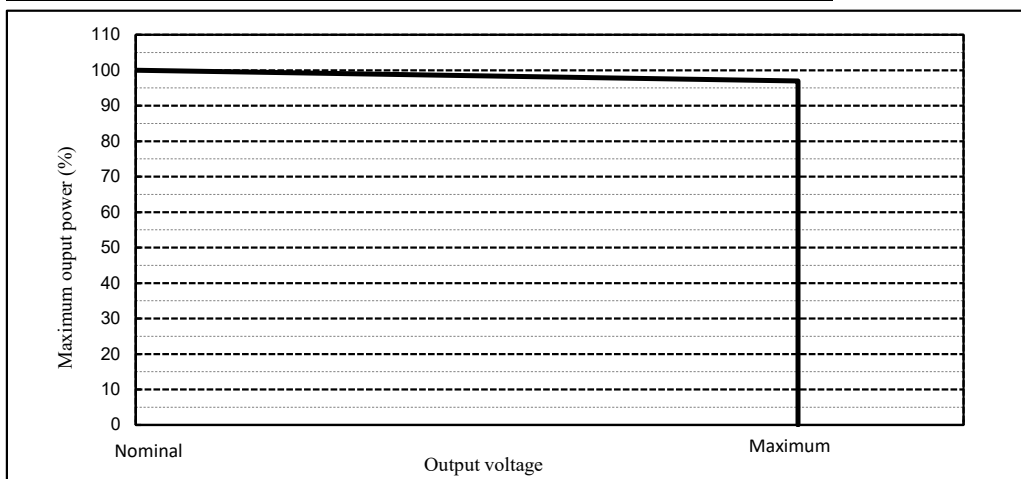
Ta (°C)	LOAD (%)
-20 - +40	100
50	86.7
60	73.3
70	60



MAIN OUTPUT POWER DERATING VERSUS HIGH OUTPUT VOLTAGE.

MODEL: CUS800M-12/24/36/48

Output voltage	Maximum Output Power (%)
Nominal output voltage	100
Maximum output voltage	97



Note: The maximum output voltage of each models.

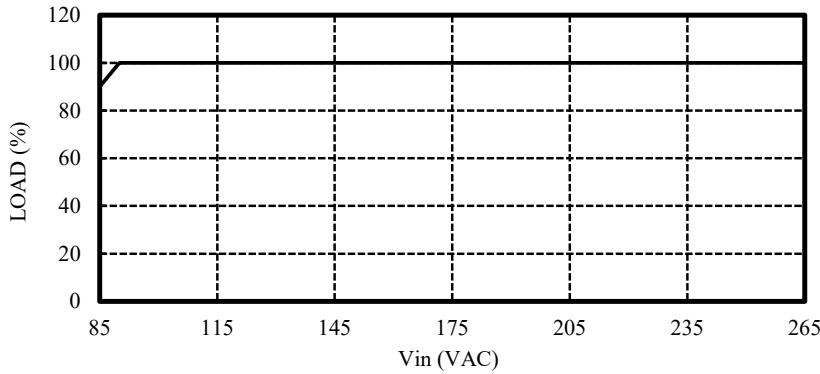
Model	Maximum Output Voltage
CUS800M-12	12.6V
CUS800M-24	25.9V
CUS800M-36	38.8V
CUS800M-48	51.8V

OUTPUT DERATING

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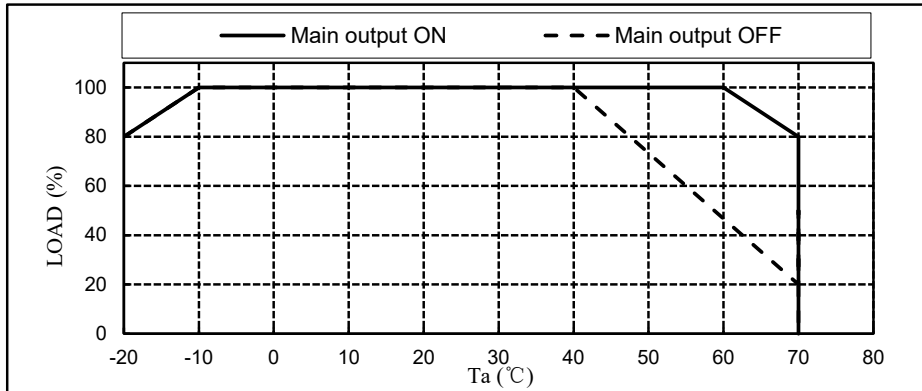
OUTPUT DERATING VERSUS INPUT VOLTAGE

INPUT VOLTAGE (VAC)	LOAD (%)
85	90
90~265	100



STANDBY SUPPLY OUTPUT DERATING VERSUS OPERATING AMBIENT TEMPERATURE (Ta)

Ta (°C)	LOAD (%)	
	Main output ON	Main output OFF
-20	80	80
-10 ~ 40	100	100
50	100	73.3
60	100	46.7
70	80	20



MOUNTING METHOD

