

CUS600M/EF

SPECIFICATIONS

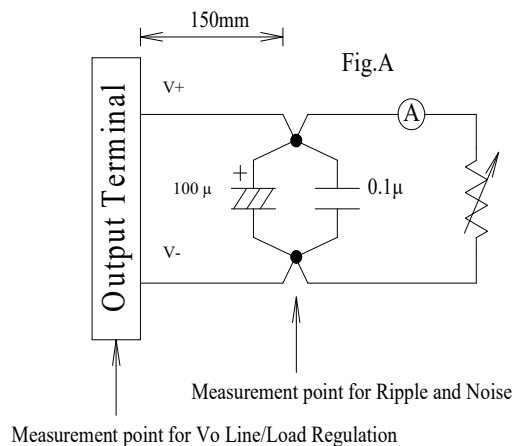
CA878-01-01/EF-A

ITEMS	MODEL	MODEL							
		CUS600M-12 /EF	CUS600M-19 /EF	CUS600M-24 /EF	CUS600M-28 /EF	CUS600M-32 /EF	CUS600M-36 /EF	CUS600M-48 /EF	
1	Nominal Output Voltage	V	12	19	24	28	32	36	48
2	Maximum Output Current	A	50.0	31.6	25.0	21.5	18.8	16.7	12.6
3	Maximum Output Power	W	600.0	600.4	600.0	602.0	601.6	601.2	604.8
4	Standby Supply	-	5V @ 1.5A(max)						
5	Efficiency @ Forced air cooling (Typ.)	(*12) %	92.3 / 94.3	92.3 / 94.3	92.8 / 94.8	93.0/ 95.0	93.0/ 95.0	93.0 / 95.0	93.0/ 95.0
6	Input Voltage Range	(*2) -	85 - 265 VAC (47-63Hz)						
7	Input Current (Typ.)	(*1) A	6.0 / 3.0						
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~ 12.9	18.5 ~ 20.5	23.4~ 25.9	27.3 ~ 30.2	31.2 ~ 34.5	35.1~ 38.8	46.8 ~ 51.8
12	Maximum Ripple & Noise	(*1)(*4)(*5) mV	240	360	360	360	480	480	480
13	Maximum Line Regulation	(*4)(*6) mV	60	90	120	140	160	180	240
14	Maximum Load Regulation	(*4)(*7) mV	120	180	240	280	320	360	480
15	Temperature Coefficient	(*4) -	Less than 0.02%/ °C						
16	Over Current Protection	(*8) A	>52.5	>33.2	> 26.3	>22.6	>19.7	>17.5	>13.2
17	Over Voltage Protection	(*9) V	13.8 - 16.2	21.8 - 25.7	27.6 - 32.4	32.2 - 37.8	36.8 - 43.2	41.4 - 48.6	55.2 - 64.8
18	Hold-up time (Typ.)	(*1) -	14ms						
19	Leakage Current	(*10) -	0.2mA 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) -	-10°C - +60°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 Exhaust 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/ES/CSA/EN 60601-1, IEC/EN/UL/CSA 62368-1						
34	EMI	(*1) -	Designed to meet EN55011-B, EN55032-B, FCC-Class B						
35	Immunity	(*14) -	Designed to meet IEC60601-1-2; 2015 (Ed.4), IEC61000-4-2, -3, -4, -5, -6, -8, -11						
36	Weight (Typ.)	g	790						
37	Size (L x W x H)	mm	157 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 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, 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, ambient temperature and mounting method.
- 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. Refer to Immunity Test Data for details.



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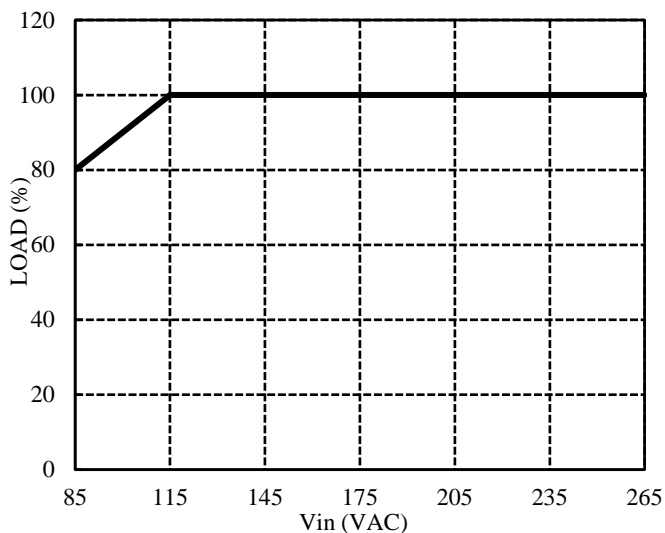
OUTPUT DERATING

CA878-01-02/EF

OUTPUT DERATING VERSUS INPUT VOLTAGE

FOR ALL MODELS

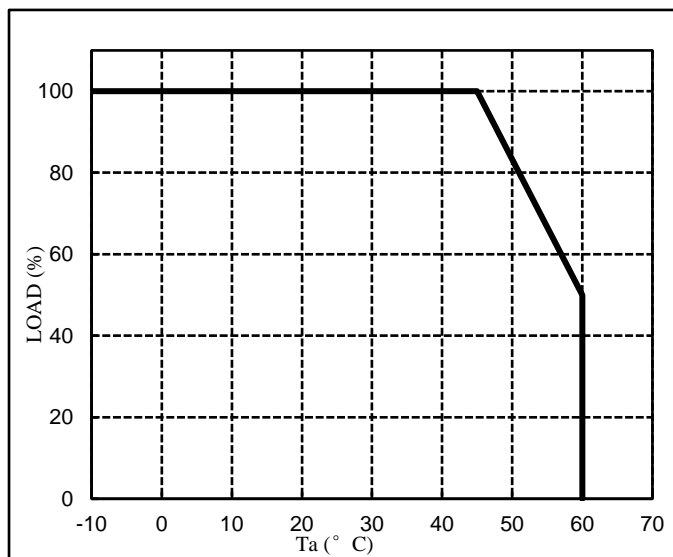
INPUT VOLTAGE (VAC)	LOAD (%)
85	80
115~265	100



OUTPUT DERATING VERSUS OPERATING AMBIENT TEMPERATURE (Ta)

FOR ALL MODELS

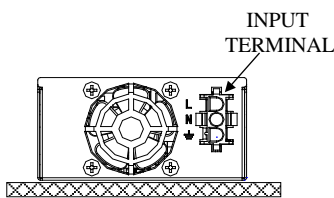
Ta (°C)	LOAD (%)
-10 - +45	100
50	83.3
60	50



MOUNTING METHOD

MOUNTING A

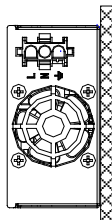
(STANDARD MOUNTING)



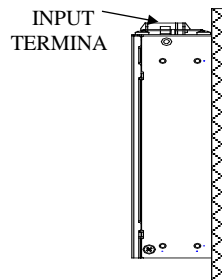
MOUNTING B



MOUNTING C



MOUNTING D



MOUNTING E

