

CUS600M/EF

SPECIFICATIONS

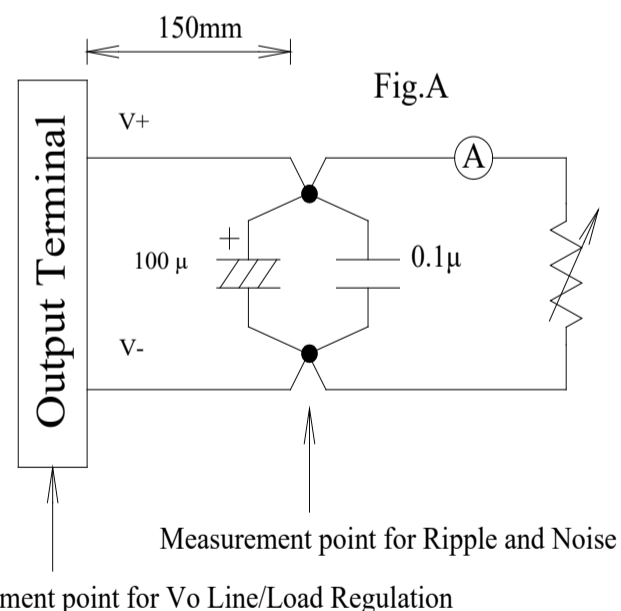
CA878-01-01/EF-C

ITEMS		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 (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/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	(*14) -	Designed to meet IEC60601-1-2 Ed.4.1, 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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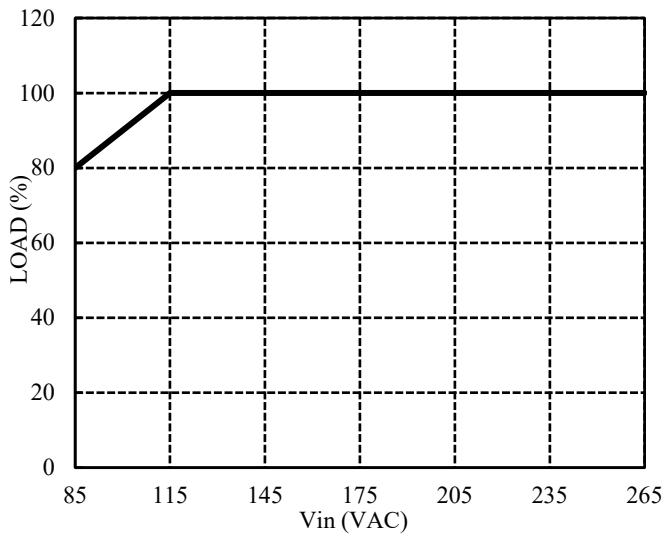
OUTPUT DERATING

CA878-01-02/EF

OUTPUT DERATING VERSUS INPUT VOLTAGE

FOR ALL MODELS

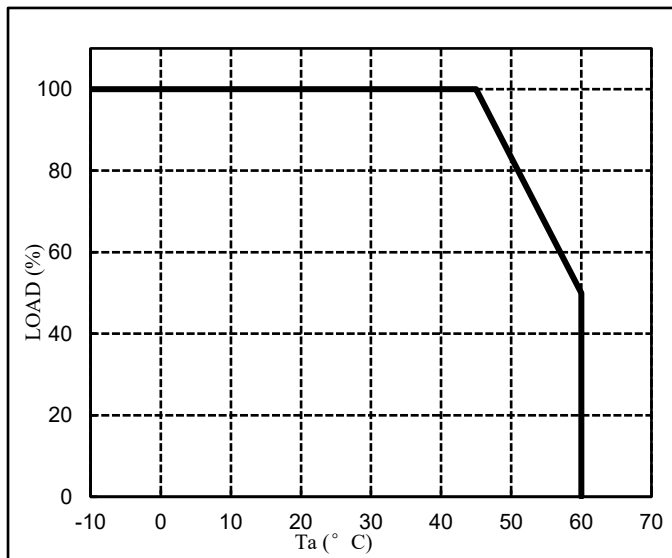
INPUT VOLTAGE (VAC)	LOAD (%)
85	80
115~265	100



OUTPUT DERATING VERSUS OPERATING AMBIENT TEMPERATURE (Ta)

FOR ALL MODELS

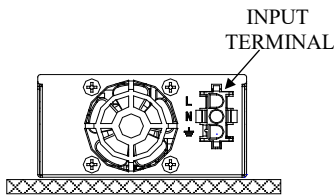
Ta (°C)	LOAD (%)
-10 - +45	100
50	83.3
60	50



MOUNTING METHOD

MOUNTING A

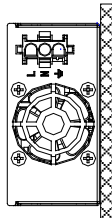
(STANDARD MOUNTING)



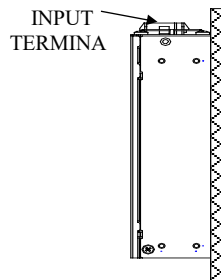
MOUNTING B



MOUNTING C



MOUNTING D



MOUNTING E

