

CUS600M1/EF

SPECIFICATIONS

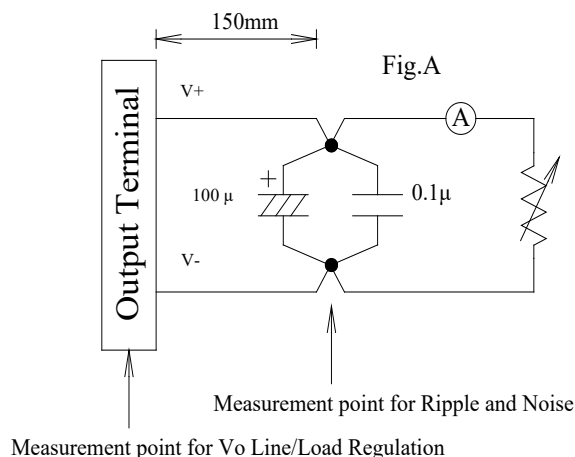
CA917-01-01/EF-B

ITEMS	MODEL	MODEL							
		CUS600M1-12 /EF	CUS600M1-19 /EF	CUS600M1-24 /EF	CUS600M1-28 /EF	CUS600M1-32 /EF	CUS600M1-36 /EF	CUS600M1-48 /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	Efficiency (Typ.)	(*) %	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
5	Input Voltage Range	(*)2) -	85 - 265 VAC (47-63Hz)						
6	Input Current (Typ.)	(*)1) A	6.0 / 3.0						
7	In-rush Current (Typ.)	(*)1)(*)3) -	25A / 50A at Cold Start						
8	PFHC	-	Built to meet IEC61000-3-2,Class A						
9	Power Factor (Typ.)	(*)1) -	0.99/0.95						
10	Output Voltage Range	(*)1)(*)4) V	Fixed (Shipment condition: ±2.5%)						
11	Maximum Ripple & Noise	(*)1)(*)4)(*)5) mV	240	360	360	360	480	480	480
12	Maximum Line Regulation	(*)4)(*)6) mV	60	90	120	140	160	180	240
13	Maximum Load Regulation	(*)4)(*)7) mV	120	180	240	280	320	360	480
14	Temperature Coefficient	(*)4) -	Less than 0.02%/ °C						
15	Over Current Protection	(*)8) A	>52.5	>33.2	> 26.3	>22.6	>19.7	>17.5	>13.2
16	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
17	Hold-up time (Typ.)	(*)1) -	14ms						
18	Leakage Current	(*)10) -	0.2mA max @ 265VAC, 60Hz						
19	Parallel Operation	-	-						
20	Series Operation	(*)12) -	Possible						
21	Operating Temperature	(*)11) -	-20°C - +60°C						
22	Operating Humidity	-	10 - 95%RH (No condensing)						
23	Storage Temperature	-	-40°C - +75°C						
24	Storage Humidity	-	10 - 95%RH (No condensing)						
25	Cooling	-	Forced Air By Exhaust Fan						
26	Withstand Voltage	-	Input-FG : 2kVAC (20mA) 1x MOPP Input-Output : 4kVAC (20mA) 2x MOPP Output-FG : 1.5kVAC (20mA) 1x MOPP						
27	Isolation Resistance	-	More than 100MΩ at 25°C,70%RH, Output - FG : 500VDC						
28	Vibration	-	At no operating, 10-55Hz (Sweep for 1min.) Maximum 19.6m/s ² X,Y,Z 1 hour each						
29	Shock	-	Less than 196m/s ²						
30	Safety	-	Approved by IEC/EN62368-1,UL62368-1,CSA62368-1 Approved by IEC/EN60601-1,ES60601-1,CSA-C22.2 No.60601-1						
31	EMI	(*)1) -	Designed to meet EN55011-B, EN55032-B, FCC-Class B						
32	Immunity	(*)13) -	Designed to meet IEC60601-1-2 Ed.4.1, IEC61000-4-2, -3, -4, -5, -6, -8, -11						
33	Weight (Typ.)	g	790						
34	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 Output Channel.
- *12. Refer to Instruction Manual for details.
- *13. Refer to Immunity Test Data for details.



CUS600M1/EF

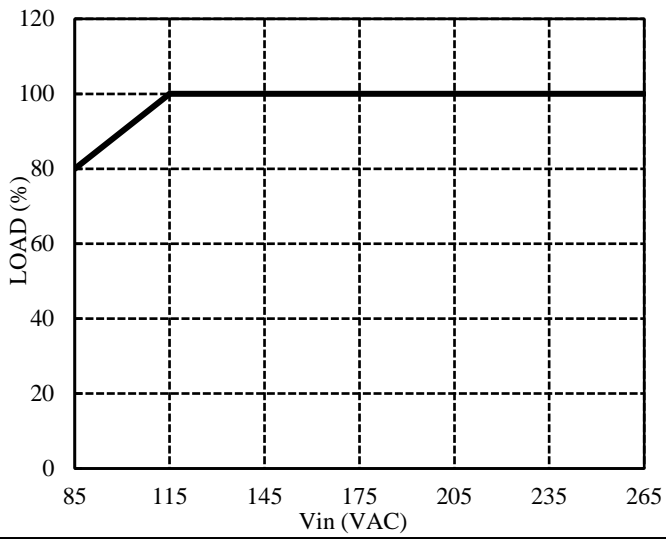
OUTPUT DERATING

CA917-01-02/EF

OUTPUT DERATING VERSUS INPUT VOLTAGE

FOR ALL MODELS

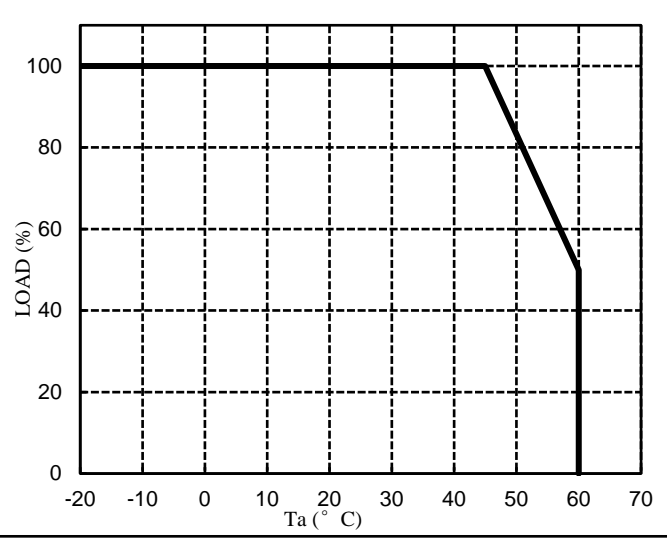
INPUT VOLTAGE (VAC)	LOAD (%)
85	80
115~265	100



OUTPUT DERATING VERSUS OPERATING AMBIENT TEMPERATURE (Ta)

FOR ALL MODELS

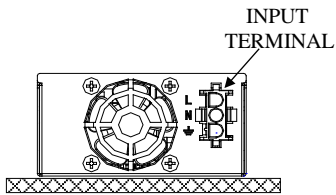
Ta (°C)	LOAD (%)
-20 - +45	100
50	83.3
60	50



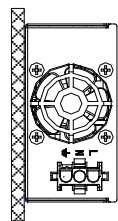
MOUNTING METHOD

MOUNTING A

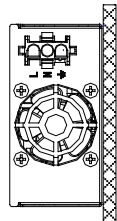
(STANDARD MOUNTING)



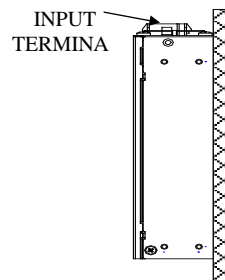
MOUNTING B



MOUNTING C



MOUNTING D



MOUNTING E

