CUS500M1/EF

SPECIFICATIONS

CA922-01-01/EF-A

	ITEMS / MODEL			CUS500M1-12 /EF	CUS500M1-19 /EF	CUS500M1-24 /EF	CUS500M1-28 /EF	CUS500M1-32 /EF	CUS500M1-36 /EF	CUS500M1-48 /EF
1	Nominal Output Voltage		V	12	19	24	28	32	36	48
2	Maximum Output Current		A	41.7	26.4	20.9	17.9	15.7	13.9	10.5
3	Maximum Output Power		W	500.4	501.6	501.6	501.2	502.4	500.4	504.0
4	Efficiency @ Forced air cooling (Typ.)	(*1)	%	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	5.0 / 2.5						
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)	-	0.99/0.94						
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% / ℃						
15	Over Current Protection	(*8)	A	>43.8	>27.8	> 22.0	>18.8	>16.5	>14.6	>11.1
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℃- +60℃						
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; 2015 (Ed.4), IEC61000-4-2, -3, -4, -5, -6, -8, -11						
33	Weight (Typ.)		g	750						
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℃, 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.

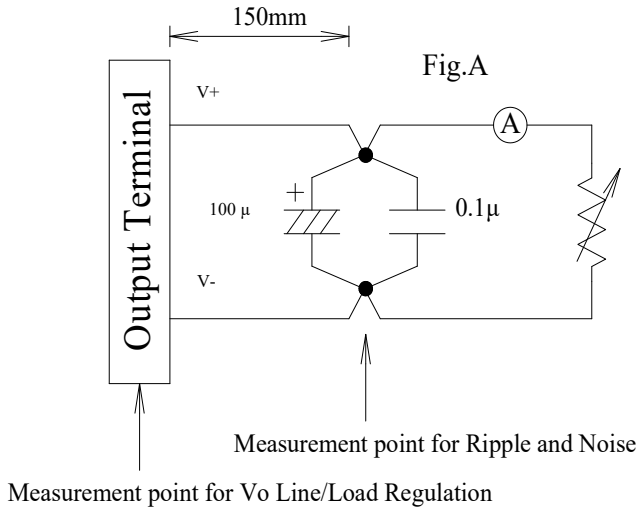


Fig.A

CUS500M1/EF

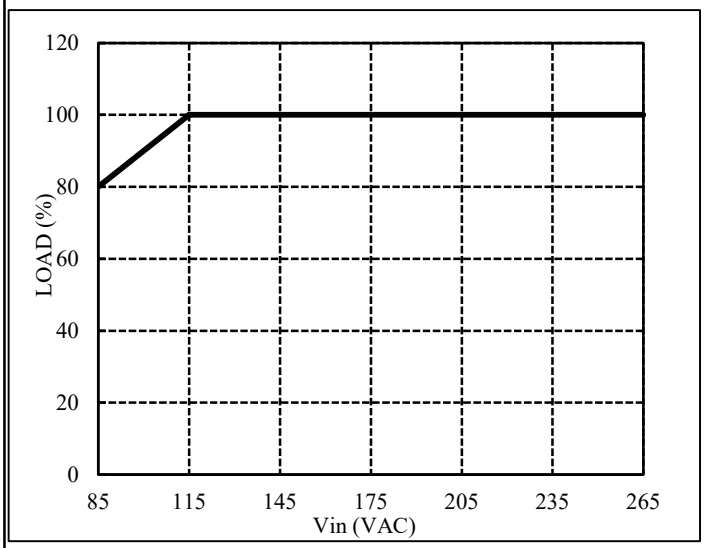
OUTPUT DERATING

CA922-01-02/EF-A

OUTPUT DERATING VERSUS INPUT VOLTAGE

FOR ALL MODELS

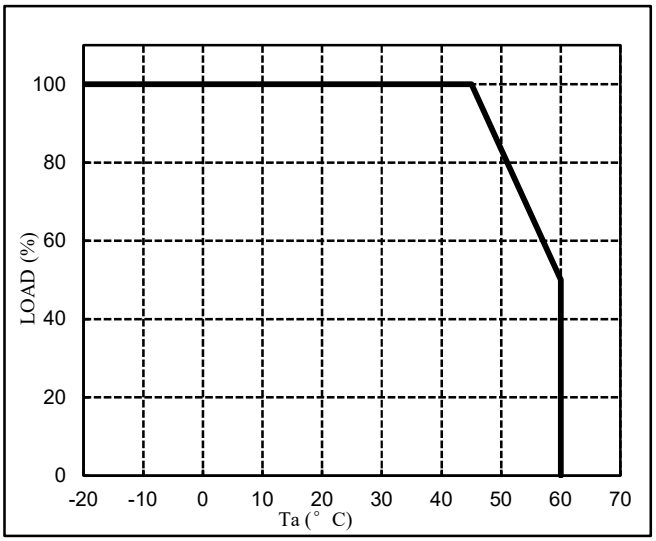
INPUT VOLTAGE (VAC)	LOAD (%)
85	80
115~265	100



OUTPUT DERATING VERSUS OPERATING AMBIENT TEMPERATURE (Ta)

FOR ALL MODELS

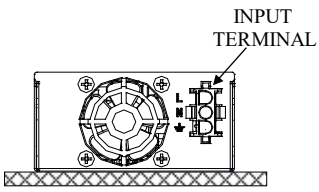
Ta (°C)	LOAD (%)
-20 - +45	100
50	83.3
60	50



MOUNTING METHOD

MOUNTING A

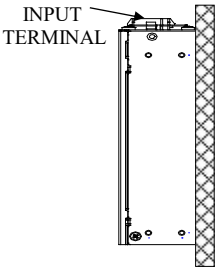
(STANDARD MOUNTING)



MOUNTING B

MOUNTING C

MOUNTING D



MOUNTING E