SPECIFICATIONS

CA811-01-01A

MODEL ITEMS			CUS200M-12	CUS200M-18	CUS200M-24	CUS200M-48
1	Nominal Output Voltage	V	12	18	24	48
2	Maximum Output Current @ Convection cooling	A	16.7	11.2	8.4	4.2
3	Maximum Output Current @ Forced air cooling (*12)	A	16.7	14.0	10.5	5.3
	Maximum Output Power @ Convection cooling	W	200.4	201.6	201.6	201.6
,	Maximum Output Power @ Forced air cooling (*12)	W	200.4	252.0	252.0	254.4
4	Standby Mode Power	-	5V @ 0.6A(max	x) at convection cooling	, 5V @ 1A(max) at for	ced air cooling
5	Efficiency @ Convection cooling (Typ.) 115/230 VAC (*1)	%	92 / 93	92 / 94	92 / 94	92 / 94
	Efficiency @ Forced air cooling (Typ.) 115/230 VAC (*1)	%	91 / 93	92 / 94	92 / 94	92 / 94
6	Input Voltage Range (*2)	-		85 - 265 VAC	(47-63Hz)	
7	Input Current @ Convection cooling (Typ.) 115/230 VAC (*1)	A		2.2/	1.1	
,	Input Current @ Forced air cooling (Typ.) 115/230 VAC (*1)	A		3.0/	1.5	
8	In-rush Current (Typ.) 115/230 VAC (*1)(*3)	-	35A / 70A at Cold Start			
9	PFHC	-		Built to meet IEC6		
10	Power Factor (Typ.) 115/230 VAC (*1)	-		0.99/0).95	
11	Output Voltage Range	V	11.7 ~ 12.6	17.6 ~ 18.9	23.5 ~ 25.2	47 ~ 50.4
12	Maximum Ripple & Noise@ Convection cooling 115/230 VAC(*1)(*4)(*5)	mV	180	180	240	480
12	Maximum Ripple & Noise@ Forced air cooling 115/230 VAC(*1)(*4)(*5)	mV	180	200	240	480
13	Maximum Line Regulation (*4)(*6)	mV	60	90	120	240
14	Maximum Load Regulation (*4)(*7)	mV	120	180	240	480
15	Remote Off Power Consumption (*13)	-		<0.5W @ 2	230VAC	
16	Temperature Coefficient (*4)	-		Less than 0.	.02% / °C	
17	Over Current Protection (*8)	A	>17.5	>14.7	> 11	>5.5
18	Over Voltage Protection (*9)	V	13.2 - 16.2	19.8 - 24.3	26.4 - 32.4	52.8 - 64.8
19	Hold-up time (Typ.) (*1)	-	13.2 10.2	16ms @ 200W, 1		
20	Leakage Current (*10)		0.3mA max @ 265VAC,60Hz			
21	Remote ON/OFF control		Possible			
22	DC-OK		Possible			
23	Parallel Operation		Possible			
24	Series Operation			Possi	ble	
25	Operating Temperature (*11)			-20°C- +		
26	Operating Humidity					
27	Storage Temperature	-	10 - 95%RH (No condensing)			
28	0 1	-	-40°C -+85°C			
	Storage Humidity		10 - 95%RH (No condensing) Convection or Forced Air Cooling			
29	Cooling (*12)	-				
20	Wide A LV Is	_	Input-FG: 2kVAC (20mA) 1x MOPP			
30	Withstand Voltage		Input-Output: 4kVAC (20mA) 2x MOPPs			
				Output-FG : 1.5kVAC	` /	
31	Isolation Resistance	-	More than 100MΩ at 25°C,70%RH, Output - FG: 500VDC			
32	Vibration	-		At no operating, 10-55I		
				Maximum 19.6m/s ²		
33	Shock	-		Less than 196m/s ² ar		
				60601-1 2nd Edition an	·	
34	Safety	-	ANSI/AAMI ES60601-1, CAN/CSA-C22.2 No.60601-1 3rd Edition(cTUVus), IEC/EN60950-1 2nd Edition, UL/CSA60950-1 2nd Edition(cTUVus),			
35	EMI (*1)	_	Design to meet GB4943.1 Designed to meet EN55011-B, EN55022-B, FCC-Class B @ Convection cooling			
33	(1)			meet IEC61000-4-2 (Le		
36	Immunity			C61000-4-4 (Level 3), II		
				-4-6 (Level 3), IEC6100	,	//
37	Weight (Typ.)	g	350			
38	Size (LxWxH)	mm	127 x 76.2 x 34 (Refer to Outline Drawing)			

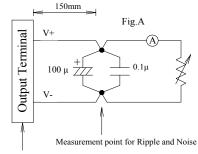
- *Read instruction manual carefully, before using the power supply unit.
- =NOTES=
- *1.Ta=25 $^{\circ}\text{C}$, Nominal output voltage and maximum output power.
- *2. For cases where conformance to various safety specs (UL, CSA, EN) are required, input voltage range will be 100 ~ 240VAC (50-60Hz).
 - 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 for more than 30 seconds.

- *9. OVP circuit shut down the output, manual reset (Repower on) to get 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.
- maximum load start up at -40°C is possible. However, it may not fulfill all the specifications.
- *12. Forced air cooling with air velocity more than 1.5m/s and air volume more than 15.9CFM (measured at component side, air must flow through component side).
- *13. The power consumption refers to input power during remote off and standby 5V is at no load condition.



Measurement point for Vo Line/Load Regulation

OUTPUT DERATING

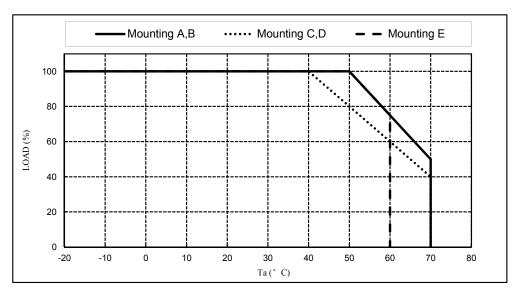
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OUTPUT DERATING VERSUS OPERATING AMBIENT TEMPERATURE (Ta)

*COOLING : CONVECTION COOLING

MODEL: CUS200M-18, CUS200M-24, CUS200M-48

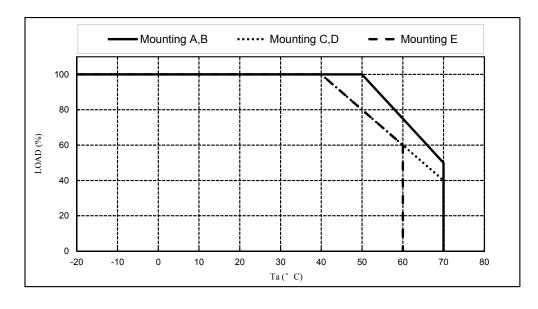
Ta (°C)	MOUNTING A,B	MOUNTING C,D	MOUNTING E	
1a (C)	LOAD (%)	LOAD (%)	LOAD (%)	
-20 - +40	100	100	100	
50	100	80	100	
60	75	60	75	
65	63	50	-	
70	50	40	-	



*COOLING : CONVECTION COOLING

MODEL: CUS200M-12

Ta (°C)	MOUNTING A,B	MOUNTING C,D	MOUNTING E	
1a (*C)	LOAD (%)	LOAD (%)	LOAD (%)	
-20 - +40	100	100	100	
50	100	80	80	
60	75	60	60	
65	63	50	-	
70	50	40	-	

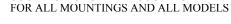


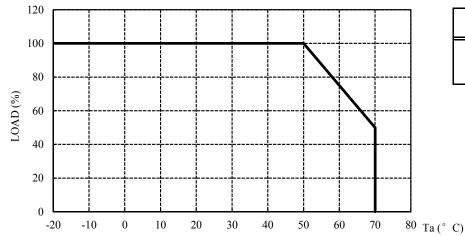
OUTPUT DERATING

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OUTPUT DERATING VERSUS OPERATING AMBIENT TEMPERATURE (Ta)

* COOLING: FORCED AIR COOLING FOR ALL MOUNTINGS AND ALL MODELS



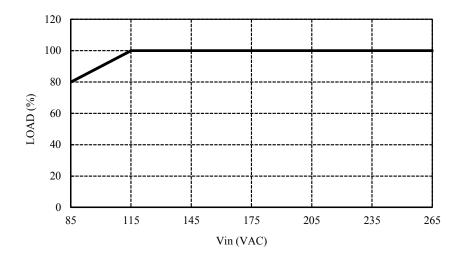


Ta (°C)	LOAD (%)
-20 - +50	100
60	75
70	50

OUTPUT DERATING VERSUS INPUT VOLTAGE

FOR ALL MOUNTINGS AND ALL MODELS

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



MOUNTING METHOD

