

CUS1200M

SPECIFICATIONS

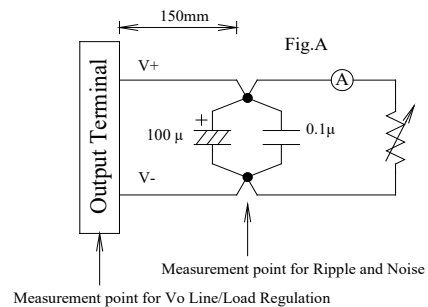
CA988-01-01

ITEMS		MODEL	CUS1200M-24		CUS1200M-36		CUS1200M-48	
INPUT								
Input Voltage Range & Input Frequency		(*2)	-	85 ~ 265VAC (47 ~ 63Hz)				
Efficiency (Typ.)		(*12)	115VAC	%	92.5	93	93	
			230VAC	%	95	95.5	95.5	
Input Current (Typ.)		(*1)	115VAC	A	12	12	12	
			230VAC	A	6	6	6	
Inrush Current (Typ.)		(*1)(*3)	115/230VAC	A	30A / 50A at Cold Start			
Power Factor (Typ.)		(*1)	115/230VAC	-	0.99/0.95			
Leakage Current		(*10)	-	0.25mA max @ 265VAC, 60Hz				
OUTPUT								
Nominal Output Voltage			V	24	36	48		
Output Voltage Initial Set Accuracy			-	±1%				
Output Voltage Adjustment Range			(*1)(*4)	V	23.4 ~ 25.2	35.1 ~ 37.8	46.8 ~ 50.4	
Maximum Output Current			A	50.0	33.3	25.0		
Maximum Output Power			W	1200.0	1198.8	1200.0		
Maximum Line Regulation			(*4)(*6)	mV	120	180	240	
Maximum Load Regulation			(*4)(*7)	mV	240	360	480	
Temperature Coefficient			(*4)	-	Less than 0.02% / °C			
Maximum Ripple & Noise			(*1)(*4)(*5)	mV	360	480	480	
Hold-up time (Typ.)			(*1)	ms	11			
Protective function								
Over Current Protection			(*8)	A	>52.5	>35.0	>26.3	
Over Voltage Protection			(*9)	V	27.6 ~ 32.4	41.4 ~ 48.6	55.2 ~ 64.8	
Standby Supply								
Nominal Output Voltage (Typ.)			(*14)	V	5			
Maximum Output Current			(*14)	A	2			
FUNCTION								
Remote ON/OFF Control			(*13)	-	Possible			
Power Good			(*13)	-	Possible			
Remote Sensing			(*13)	-	Possible			
Parallel Operation			-	-	None			
Series Operation			(*13)	-	Possible			
ENVIRONMENT								
Operating Temperature			(*11)	-	-20 to +70°C			
Storage Temperature			-	-	-40 to +75°C			
Operating Humidity			-	-	10 to 95%RH (No condensing)			
Storage Humidity			-	-	10 to 95%RH (No condensing)			
Vibration			(*16)	-	At no operating, 10-55Hz (Sweep for 1min.) Maximum 19.6m/s ² X,Y,Z 1 hour each			
Shock			(*16)	-	Less than 196m/s ²			
Cooling			-	-	Forced air by build-in intake fan			
ISOLATION								
Withstand Voltage			-	-	Input-FG : 2kVAC (20mA) 1x MOPP , Input-Output : 4kVAC (20mA) 2x MOPP Output-FG : 1.5kVAC (20mA) 1x MOPP			
Isolation Resistance			-	-	More than 100MΩ at 25°C,70%RH, Output - FG : 500VDC			
STANDARD AND COMPLIANCE								
Safety			-	-	Approved by IEC/EN62368-1, UL62368-1, CSA62368-1 (Altitude :5000m) Approved by IEC/EN60601-1, ES60601-1, CSA-C22.2 No.60601-1 (Altitude :5000m)			
Conducted Emission			(*1)	-	Designed to meet EN55011/EN55032-B, FCC-ClassB, VCCI-B			
Radiated Emission			(*1)	-	Designed to meet EN55011/EN55032-B, FCC-ClassB, VCCI-B			
Harmonic Current			-	-	Designed to meet IEC61000-3-2,Class A			
Immunity			(*15)	-	Designed to meet IEC60601-1-2 Ed4.1, IEC61000-4-2, -3, -4, -5, -6, -8, -11			
Line DIP			-	-	Designed to meet SEMI-F47 at 200VAC Only			
MECHANICAL								
Weight (Typ.)			g	980				
Size (W x H x D)			mm	187x 93 x 42.5 (Refer to Outline Drawing)				
OTHERS								
Coating			-	-	Optional			

*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 90VAC, 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, output voltage and ambient temperature.
- 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. Please refer to various output derating curves for Standby Supply.
- *15. Refer to Immunity Test Data for details.
- *16. Fixed by the 4 mounting holes on the bottom or by the 8 mounting holes on the both sides.



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OUTPUT DERATING

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MAIN OUTPUT DERATING VERSUS OPERATING AMBIENT TEMPERATURE (Ta)

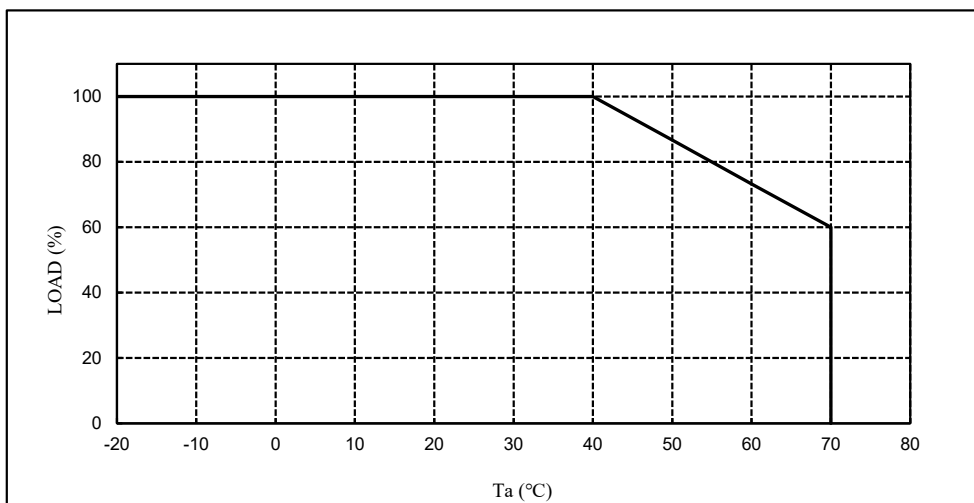
Output derating versus input voltage should be considered. Please refer to the output derating versus input voltage curve for detail.

Load (%) is percent of maximum output power or maximum output current.

If output voltage is raised higher than nominal, maximum power derating versus high output voltage should be considered.

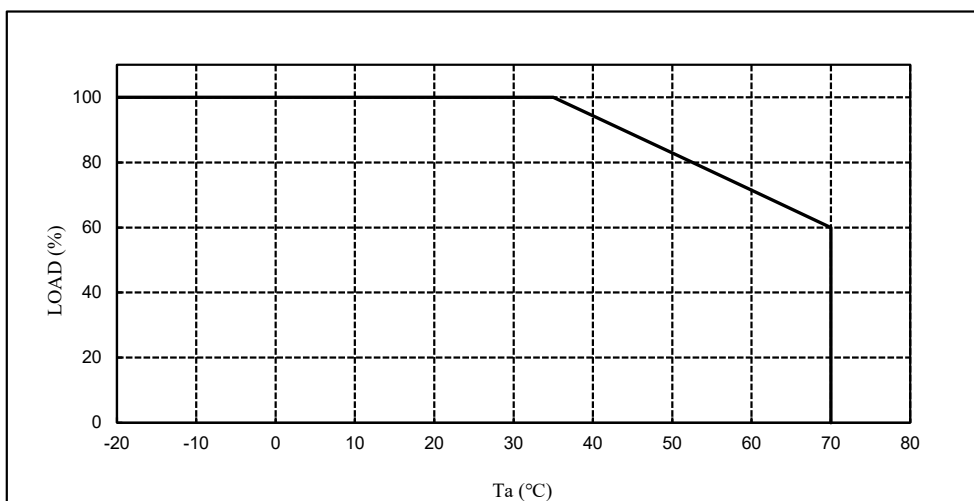
MODEL: CUS1200M-36/48

Ta (°C)	LOAD (%)
-20 - +40	100
50	86.7
60	73.3
70	60



MODEL: CUS1200M-24

Ta (°C)	LOAD (%)
-20 - +35	100
40	94.3
50	82.9
60	71.5
70	60



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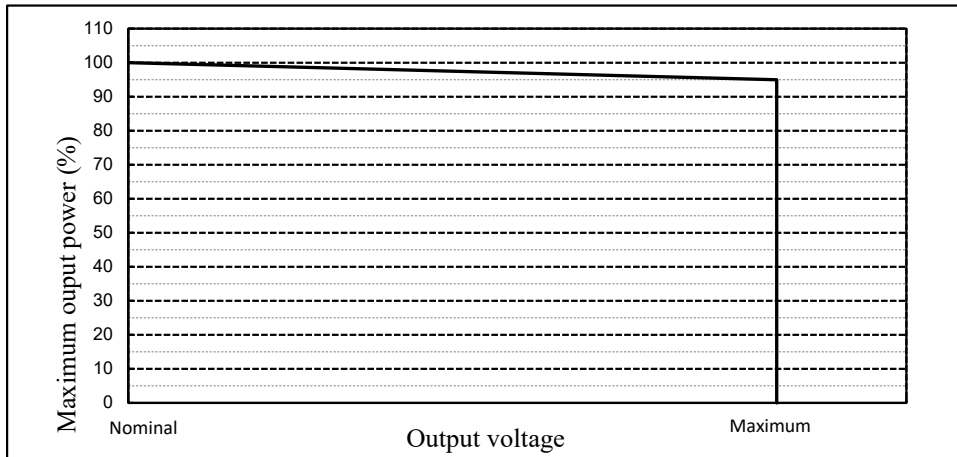
OUTPUT DERATING

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MAIN OUTPUT POWER DERATING VERSUS HIGH OUTPUT VOLTAGE

MODEL: CUS1200M-24/36/48

Output voltage	Maximum Output Power (%)
Nominal output voltage	100
Maximum output voltage	95

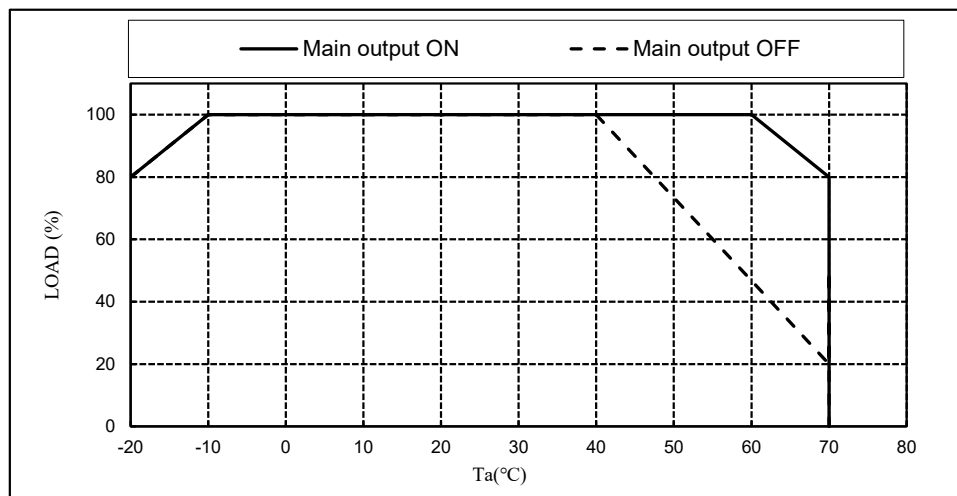


Note: The maximum voltage of each models.

Model	Maximum Output Voltage
CUS1200M-24	25.2V
CUS1200M-36	37.8V
CUS1200M-48	50.4V

STANDBY SUPPLY OUTPUT DERATING VERSUS OPERATING AMBIENT TEMPERATURE (Ta)

Ta (°C)	LOAD (%)	
	Main output ON	Main output OFF
-20	80	80
-10 ~ 40	100	100
50	100	73.3
60	100	46.7
70	80	20

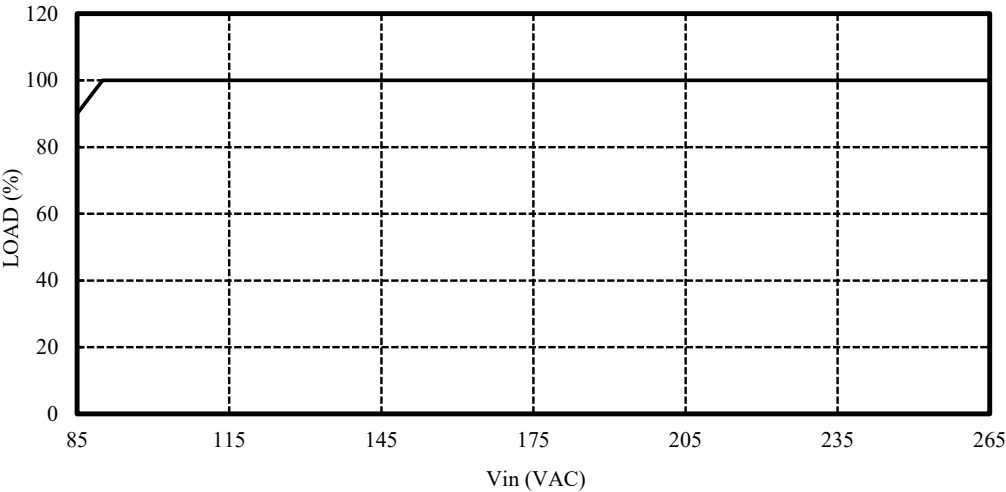


OUTPUT DERATING

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OUTPUT DERATING VERSUS INPUT VOLTAGE

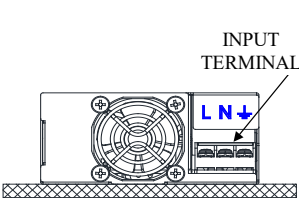
INPUT VOLTAGE (VAC)	LOAD (%)
85	90
90~265	100



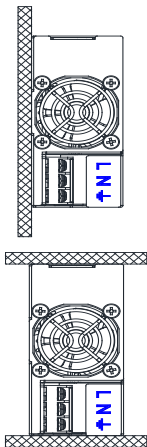
MOUNTING METHOD

MOUNTING A

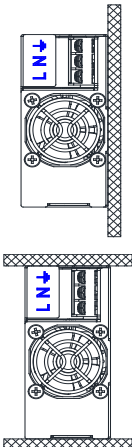
(STANDARD MOUNTING)



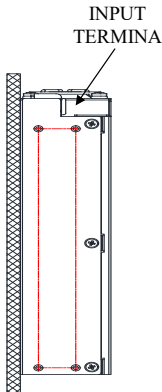
MOUNTING B



MOUNTING C



MOUNTING D



MOUNTING E

