

**CUS1500M**

A279-01-01/CUS-A

SPECIFICATIONS(1/2)

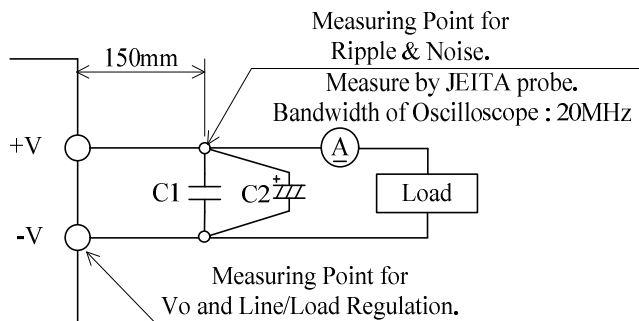
ITEMS		MODEL	CUS1500M-12	CUS1500M-15	CUS1500M-24	CUS1500M-36	CUS1500M-48
1	Nominal Output Voltage	V	12	15	24	36	48
2	Maximum Output Current	A	125	100	63	42	32
3	Maximum Output Power	W	1500	1500	1512	1512	1536
4	Efficiency (Typ) (*13)	100/115VAC	% 81/82	% 81/82	% 85/85	% 85/85	% 84/85
		200/230VAC	% 84/85	% 84/85	% 88/88	% 88/88	% 87/88
5	Input Voltage Range	(*2)(*11)	- 85 - 265VAC (47 - 63Hz) or 120 - 340VDC				
6	Input Current (Typ) (*13)	100/115VAC	A 19 / 16				
		200/230VAC	A 10 / 8				
7	Inrush Current (Typ)	(*1)(*3)	- 20A / 40A at 1st Inrush , 60A / 60A at 2nd Inrush				
8	PFHC		- Designed to meet IEC61000-3-2				
9	Power Factor (Typ)	(*1)	- 0.98/0.95				
10	Output Voltage Range	V	10.2 - 14.4	12.8 - 18.0	20.4 - 28.8	30.6 - 43.2	40.8 - 52.8
11	Maximum Ripple & Noise (*4)	0≤Ta≤60°C	mV 150	150	180	250	300
		-20≤Ta<0°C	mV 180	180	200	300	400
12	Maximum Line Regulation	(*5)(*11)	mV 48	60	96	144	192
13	Maximum Load Regulation	(*6)(*11)	mV 96	120	144	216	288
14	Temperature Coefficient		- Less than 0.02% / °C				
15	Over Current Protection	(*7)	A 131.3 -	105.0 -	66.2 -	44.1 -	33.6 -
16	Over Voltage Protection	(*8)	V 15.0 - 18.0	18.8 - 22.5	30.0 - 36.0	45.0 - 54.0	55.2 - 60.0
17	Hold-up Time (Typ)	(*1)	- 20ms				
18	Leakage Current	(*9)	- Less than 0.3mA				
19	Remote Sensing	(*14)	- Possible				
20	Monitoring Signal	(*14)	- Possible				
21	Remote Control	(*14)	- Possible				
22	Parallel Operation	(*14)	- Possible				
23	Series Operation	(*14)	- Possible				
24	Operating Temperature	(*10)(*11)	- -20 - +60°C (-20 - +50°C:100%, +60°C:60%)				
25	Operating Humidity		- 20 - 90%RH (No Condensing)				
26	Storage Temperature		- -30 - +75°C				
27	Storage Humidity		- 10 - 90%RH (No Condensing)				
28	Cooling	(*15)	- Forced Air Cooling (Variable fan speed)				
29	Withstand Voltage		- Input-FG : 2kVAC (20mA) 1xMOPP, Input-Output : 4kVAC (20mA) 2xMOPP, Output-FG : 1.5kVAC (20mA) 1xMOPP for 1min				
30	Isolation Resistance		- More than 100MΩ at 25°C and 70%RH Output to Chassis : 500VDC				
31	Vibration		- At no operating, 10 - 55Hz (Sweep for 1min) 19.6m/s <sup>2</sup> Constant, X,Y,Z 1hour each.				
32	Shock		- Less than 196m/s <sup>2</sup>				
33	Safety		- Approved by UL60950-1, CSA60950-1, EN60950-1, ES60601-1 3rd Edition, EN60601-1 3rd Edition, CSA-C22.2 No.60601-1 3rd Edition, UL62368-1, EN62368-1, CSA62368-1, EN62477-1(OVC III). Designed to meet Den-an Appendix 12 (J60950-1).				
34	Line DIP		- Designed to meet SEMI-F47 (200VAC Line only)				
35	Conducted Emission	(*12)	- Designed to meet EN55011/EN55032-B, FCC-B, VCCI-B				
36	Radiated Emission	(*12)	- Designed to meet EN55011/EN55032-B, FCC-B, VCCI-B				
37	Immunity	(*12)	- Designed to meet IEC61000-6-2 IEC61000-4-2, -3, -4, -5, -6, -8, -11				
38	Weight (Typ)	g	3000				
39	Size (W x H x D)	mm	127 x 63 x 261 ( Refer to Outline Drawing )				
40	Standby supply		- 5V / 1A				

\*Read instruction manual carefully, before using the power supply unit.

=NOTES=

- \*1. At 100VAC/200VAC, Ta=25°C, nominal output voltage and maximum output power.
- \*2. For cases where conformance to various safety specs (UL, CSA, EN) are required, to be described as 100 - 240VAC(50-60Hz).
- \*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 & load regulation and ripple voltage.
- \*5. 85 - 265VAC, constant load.
- \*6. No load-Full load, constant input voltage.
- \*7. Constant current limit with automatic recovery. Over current condition for more than 5 seconds will cause the output to shut down. Avoid to operate at over load or short circuit condition.
- \*8. OVP circuit will shut down output, manual reset (Re power on).
- \*9. Measured by the each measuring method of UL, CSA, EN and Den-an(at 60Hz), Ta=25°C.
- \*10. Output Derating
  - Refer to LOAD vs. AMBIENT TEMPERATURE(A279-01-02/CUS\_).
  - Load (%) is percent of maximum output power or maximum output current, do not exceed its derating of maximum load.
- \*11. Output derating needed when input voltage less than 90VAC. Refer to LOAD vs. INPUT VOLTAGE(A279-01-02/CUS\_).
- \*12. The power supply is considered a component which will be installed into a final equipment.  
The final equipment should be re-evaluated that it meets EMC directives.
- \*13. Ta=25°C, nominal output voltage and maximum output power.
- \*14. Refer to instruction manual(A279-04-01/CUS\_).
- \*15. Fan noise depend on output power and internal temprature.  
Fan noise is 45dB(typ) at 30°C / 70% load.

Fig.A



C1 : Film Cap. 0.1μF  
C2 : Elect. Cap. 47μF

**CUS1500M**

OUTPUT DERATING

A279-01-02/CUS

Ta (°C)	LOAD (%)
	MOUNTING A-D
-20 - +50	100
60	60

INPUT VOLTAGE (VAC)	LOAD (%)
	MOUNTING A-D
85	80
90 - 265	100

