CUS1500M/CO2

A279-01-01/CUSCO2

SPECIFICATIONS(1/2)

	ITEMS / MODEL			CUS1500M-12/CO2	CUS1500M-15/CO2	CUS1500M-24/CO2	CUS1500M-36/CO2	CUS1500M-48/CO2
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)	100/115VAC	%	81/82	81/82	85/85	85/85	84/85
	(*13)	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)	100/115VAC	A	19 / 16				
	(*13)	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	0≤Ta≤60°C	mV	150	150	180	250	300
	(*4)	-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^2 Constant, X,Y,Z 1hour each.				
32	Shock		-	Less than 196m/s^2				
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				

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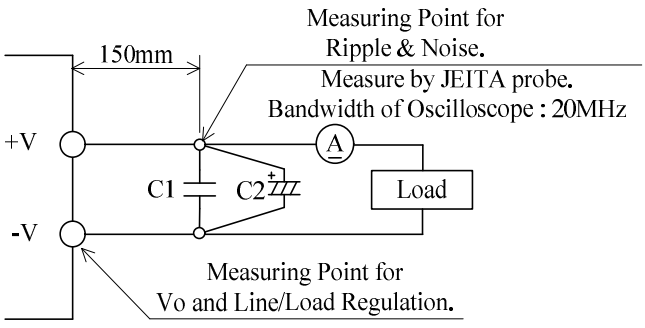
SPECIFICATIONS(2/2)

*To improve resistance against dust environment, both sides of assembled PCB are coated.
However, complete effect is not guaranteed because some areas on the board are not coated.
*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