RWS300B/CO2I

SPECIFICATIONS

A261-01-01/CO2I

	ITEMS / MODEL			RWS300B-12/CO2	RWS300B-24/CO2	RWS300B-48/CO2
-	Part No		-	RWS300B-12/CO2I	RWS300B-24/CO2I	RWS300B-48/CO2I
1	Nominal Output Voltage		V	12	24	48
2	Maximum Output Current		A	25	12.5	6.3
3	Maximum Output Power		W	300	300	302.4
4	Efficiency (Typ) (*1)(*11)	100/115VAC	%	79/79.5	85/85	85/85
		200/230VAC	%	82/82.5	88/88	88/88
5	Input Voltage Range	(*2)(*11)	-	85 - 265VAC (47 - 63Hz) or 120 - 370VDC		
6	Input Current (Typ)	100/115VAC	A	3.8 / 3.6		
	(*1)(*11)	200/230VAC	A	2.1 / 1.9		
7	Inrush Current (Typ)	(*1)(*3)(*11)	-	17A at 100VAC, 34A at 200VAC, Ta=25°C, Cold Start		
8	PFHC		-	Designed to meet IEC61000-3-2		
9	Power Factor (Typ)	(*1)(*11)	-	0.95 at 100VAC, 0.90 at 200VAC		
10	Output Voltage Range		V	10.8 - 13.8	21.6 - 27.6	43.2 - 52.8
11	Maximum Ripple & Noise	0≤Ta≤70°C	mV	150	150	200
	(*4)	-20≤Ta<0°C	mV	180	180	500
12	Maximum Line Regulation	(*5)(*11)	mV	48	96	192
13	Maximum Load Regulation	(*6)(*11)	mV	96	192	384
14	Temperature Coefficient		-	Less than 0.02% / °C		
15	Over Current Protection	(*7)	A	26.25 ≤	13.13 ≤	6.62 ≤
16	Over Voltage Protection	(*8)	V	14.4 - 16.8	28.8 - 33.6	55.2 - 64.8
17	Hold-up Time (Typ)	(*12)	-	20ms		
18	Leakage Current	(*9)	-	Less than 0.75mA		
19	Parallel Operation		-	-		
20	Series Operation		-	Possible		
21	Operating Temperature	(*10)(*11)	-	-20 to +70°C (-20°C : 50%, -10 to +50°C : 100%, +60°C : 85%, +70°C : 50%)		
22	Operating Humidity		-	30 to 90%RH (No Condensing)		
23	Storage Temperature		-	-30 to +75°C		
24	Storage Humidity		-	10 to 90%RH (No Condensing)		
25	Cooling		-	Forced Air Cooling		
26	Withstand Voltage		-	Input - FG : 2kVAC (20mA), Input - Output : 3kVAC (20mA) Output - FG : 500VAC (100mA) for 1min		
27	Isolation Resistance		-	More than 100MΩ at 25°C and 70%RH Output - FG : 500VDC		
28	Vibration		-	At no operating, 10 - 55Hz (Sweep for 1min) 19.6m/s^2 Constant, X,Y,Z 1hour each.		
29	Shock		-	Less than 196.1m/s^2		
30	Safety		-	Approved by UL62368-1, CSA62368-1, EN62368-1, UL60950-1,CSA60950-1, UL508, CSA C22.2 No.107.1-01, IS13252 (Part 1). Designed to meet Den-an Appendix 8 at 100VAC only.		
31	Line DIP		-	Designed to meet SEMI-F47 (200VAC Line only)		
32	Conducted Emission	(*13)	-	Designed to meet EN55011/EN55032-B, FCC-B, VCCI-B		
33	Radiated Emission	(*13)	-	Designed to meet EN55011/EN55032-B, FCC-B, VCCI-B		
34	Immunity	(*13)	-	Designed to meet IEC61000-6-2 IEC61000-4-2, -3, -4, -5, -6, -8, -11		
35	Weight (Typ)		g	900		
36	Size (W x H x D)		mm	41 x 102 x 170 (Refer to Outline Drawing)		
37	Other	(*14)	-	PCB Coating on component side and solder side.		

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

=NOTES=

*1. At 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 inrush 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. 12V model: Constant current limit and hiccup with automatic recovery.
24V, 48V model: Constant current limit with automatic recovery.
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
- Derating at standard mounting. Refer to LOAD vs. AMBIENT TEMPERATURE (A261-01-02_).
- Load (%) is percent of maximum output power or maximum output current, do not exceed its derating of maximum load.

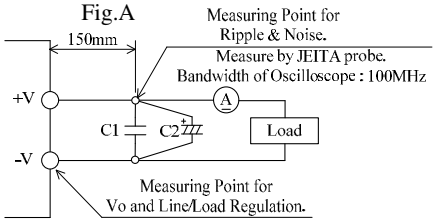
*11. Output derating needed when input voltage less than 110VAC. Refer to LOAD vs. INPUT VOLTAGE (A261-01-02_).

*12. At 110VAC/200VAC, Ta=25°C, nominal output voltage and maximum output power.

*13. 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.

*14. For "/CO2I" model, both sides of PCB are coated. However, some areas on PCB are not coated.

Fig.A



C1 : Film Cap. 0.1μF
C2 : Elect. Cap. 100μF