

RWS150B/CO2I

SPECIFICATIONS

A260-01-01/CO2I

ITEMS		MODEL	RWS150B-12/CO2	RWS150B-24/CO2	RWS150B-48/CO2
-	Part No	-	RWS150B-12/CO2I	RWS150B-24/CO2I	RWS150B-48/CO2I
1	Nominal Output Voltage	V	12	24	48
2	Maximum Output Current	A	13	6.5	3.3
3	Maximum Output Power	W	156	156	158.4
4	Efficiency (Typ) (*1)(*11)	100VAC	%	84	86
		200VAC	%	87	89
5	Input Voltage Range (*2)(*11)	-	85 - 265VAC (47 - 63Hz) or 120 - 370VDC		
6	Input Current (Typ) (*1)(*11)	A	1.9/1.0		
7	Inrush Current (Typ) (*1)(*3)(*11)	-	16A at 100VAC, 32A at 200VAC, Ta=25°C, Cold Start		
8	PFHC	-	Designed to meet IEC61000-3-2		
9	Power Factor (Typ) (*1)(*11)	-	0.95/0.90		
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	200
		(*4) -20<Ta<0°C	mV	180	300
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	13.65 <	6.83 <	3.47 <
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 +40°C:100%, +70°C:20%)		
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	-	Convection 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 1 hour each.		
29	Shock	-	Less than 196.1m/s ²		
30	Safety	-	Approved by UL62368-1, CSA62368-1, EN62368-1, UL60950-1, CSA60950-1, UL508 (12V,24V), CSA C22.2 No.107.1-01. (12V,24V), 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	480		
36	Size (W x H x D)	mm	41 x 94 x 128 (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 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 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 (A260-01-02_).
 - 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 (A260-01-02_).
- *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.

