RWS300B

A261-01-01A

SPECIFICATIONS

	ITEMS / MODEL			RWS300B-5	RWS300B-12		RWS300B-24		RWS300B-48
1	Nominal Output Voltage		V	5	12		24		48
2	Maximum Output Current		A	50	25		12.5		6.3
3	Maximum Output Power		W	250	300		300		302.4
4	Efficiency (Typ) (*1)(*11)	100VAC	%	75	79		85		85
		200VAC	%	78	82		88		88
5	Input Voltage Range (*2)(*11)		-	85 - 265VAC (47 - 63Hz) or 120 - 370VDC					
6	Input Current (Typ) (*1)(*11)		A	3.3/1.8	3.8/2.1				
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)		-	0.95/0.90					
10	Output Voltage Range		V	4.50 - 5.75	10.8 - 13.8		21.6 - 27.6		43.2 - 52.8
11	Maximum Ripple & Noise (*4)	0≤Ta≤70°C	mV	120	150		150		200
		-10≤Ta<0°C	mV	160	180		180		500
12	Maximum Line Regulation (*5)(*11)		mV	20	48		96		192
13	Maximum Load Regulation (*6)(*11)		mV	40	96		192		384
14	Temperature Coefficient		-	Less than 0.02% / °C					
15	Over Current Protection (*7)		A	52.50 -	26.25 -		13.13 -		6.62 -
16	Over Voltage Protection (*8)		V	6.0 - 7.0	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)		-	-10 - +70°C (-10 - +50°C:100%, +70°C:20%)					
22	Operating Humidity		-	30 - 90%RH (No Condensing)					
23	Storage Temperature		-	-30 - +75°C					
24	Storage Humidity		-	10 - 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 UL60950-1, UL508 (24V Only), CSA60950-1, CSA C22.2 No.107.1-01. (24V Only), CE Mark (Based on EN60950-1). Designed to meet Den-an Appendix 8 at 100VAC only.					
31	Conducted Emission (*13)		-	Designed to meet EN55011/EN55022-B, FCC-B, VCCI-B					
32	Radiated Emission (*13)		-	Designed to meet EN55011/EN55022-B, FCC-B, VCCI-B					
33	Immunity (*13)		-	Designed to meet IEC61000-6-2 IEC61000-4-2, -3, -4, -5, -6, -8, -11					
34	Weight (Typ)		g	900					
35	Size (W x H x D)		mm	102 x 41 x 170 (Refer to Outline Drawing)					

*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) 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. 5V - 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 and Den-an (at 60Hz), Ta=25°C.

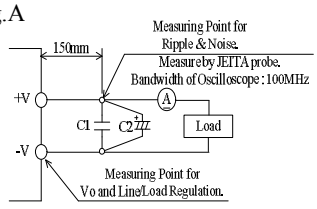
*10. Output Derating
- Derating at standard mounting. Refer to LOAD vs. AMBIENT TEMPERATURE (A261-01-02_).
- Load (%) is percent of maximum output power or maximum output current, do not exceed its derating of maximum load.

*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.

Fig.A



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

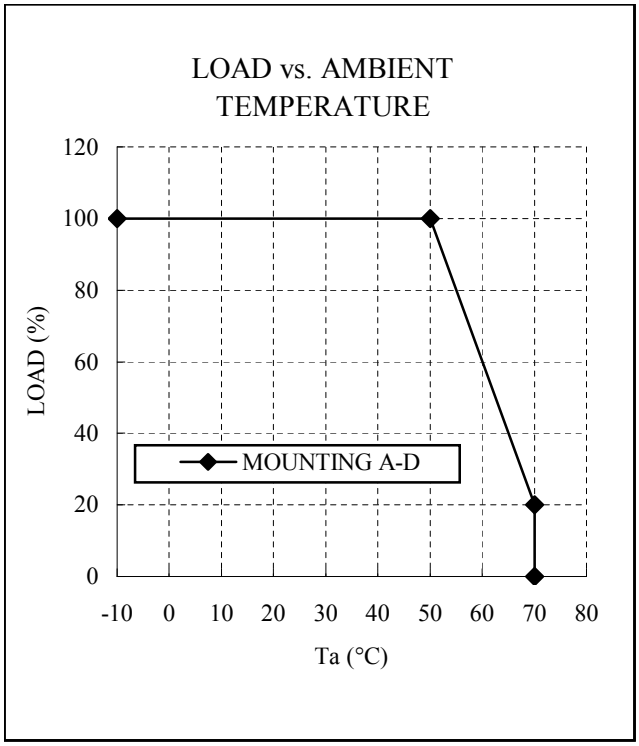
RWS300B

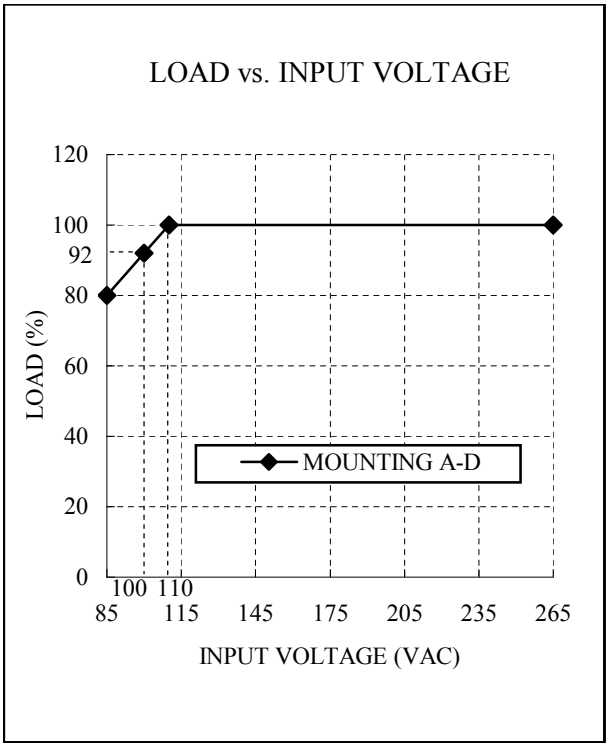
OUTPUT DERATING

A261-01-02

Ta (°C)	LOAD (%) MOUNTING A-D
-10 - +50	100
70	20

INPUT VOLTAGE (VAC)	LOAD (%) MOUNTING A-D
85	80
100	92
110 - 265	100





MOUNTING A | MOUNTING B | MOUNTING C | MOUNTING D | DON'T USE

(STANDARD MOUNTING)