

RWS50B

SPECIFICATIONS

CA806-01-01E

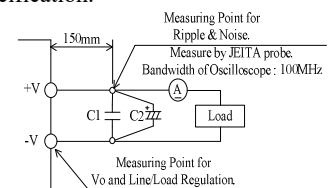
ITEMS		MODEL	RWS50B-5	RWS50B-12	RWS50B-24	RWS50B-48	
1	Nominal Output Voltage	V	5	12	24	48	
2	Maximum Output Current	A	10	4.3	2.2	1.1	
3	Maximum Output Power	W	50	51.6	52.8	52.8	
4	Efficiency (Typ) (*1)	100/115VAC	%	77/78	82/83	86/86	86/87
		200/230VAC	%	79/79	84/84	87/87	88/88
5	Input Voltage Range (*2)(*12)	-	85 - 265VAC (47 - 63Hz) or 120 - 370VDC				
6	Input Current (Typ) (*1)	100/115VAC	A	1.1/1.0			
		200/230VAC	A	0.7/0.65			
7	Inrush Current (Typ) (*1)(*3)	-	18A at 100VAC, 36A at 200VAC, Ta=25°C, Cold Start				
8	Output Voltage Range	V	4.50 - 5.75	10.8 - 13.8	21.6 - 27.6	43.2 - 52.8	
9	Maximum Ripple & Noise (*4)(*5)	0<Ta<=70°C	mV	120	150	150	200
		-20<Ta<0°C	mV	160	180	180	300
10	Maximum Line Regulation (*6)(*12)	mV	20	48	96	192	
11	Maximum Load Regulation (*7)(*12)	mV	40	96	192	384	
12	Temperature Coefficient	-	Less than 0.02% / °C				
13	Over Current Protection (*8)	A	10.50 -	4.52 -	2.31 -	1.16 -	
14	Over Voltage Protection (*9)	V	6.0 - 7.0	14.4 - 16.8	28.8 - 33.6	55.2 - 64.8	
15	Hold-up Time (Typ) (*1)	-	15ms at 100/115VAC, 95ms at 200/230VAC				
16	Leakage Current (*10)	-	Less than 0.75mA				
17	Parallel Operation	-	-				
18	Series Operation	-	Possible				
19	Operating Temperature (*11)(*12)	-	-20 - +70°C (-20°C:50%, -10 - +45°C:100%, +70°C:20%)				
20	Operating Humidity	-	30 - 90%RH (No Condensing)				
21	Storage Temperature	-	-30 - +75°C				
22	Storage Humidity	-	10 - 90%RH (No Condensing)				
23	Cooling	-	Convection Cooling				
24	Withstand Voltage	-	Input - FG : 2kVAC (20mA), Input - Output : 3kVAC (20mA) Output - FG : 500VAC (100mA) for 1min				
25	Isolation Resistance	-	More than 100MΩ at 25°C and 70%RH Output - FG : 500VDC				
26	Vibration	-	At no operating, 10 - 55Hz (Sweep for 1min) 19.6m/s ² Constant, X,Y,Z 1hour each.				
27	Shock	-	Less than 196.1m/s ²				
28	Safety	-	Approved by UL62368-1, CSA62368-1, EN62368-1, UL60950-1, CSA60950-1, EN60950-1 (Expire date of 60950-1 : 20/12/2020) UL508 (5V,12V,24V), CSA C22.2 No.107.1-01. (5V,12V,24V). Designed to meet Den-an Appendix 8 at 100VAC only.				
29	Line DIP	-	Designed to meet SEMI-F47 (200VAC Line only)				
30	Conducted Emission (*13)	-	Designed to meet EN55011/EN55032-B, FCC-B, VCCI-B				
31	Radiated Emission (*13)	-	Designed to meet EN55011/EN55032-B, FCC-B, VCCI-B				
32	Immunity (*13)	-	Designed to meet IEC61000-6-2 IEC61000-4-2, -3, -4, -5, -6, -8, -11				
33	Weight (Typ)	g	230				
34	Size (W x H x D)	mm	34 x 82 x 81.5 (Refer to Outline Drawing)				

*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. For start up at low ambient temperature and low input voltage, output ripple noise might not meet specification. However, specification can be met after one second.
- *6. 85 - 265VAC, constant load.
- *7. No load-Full load, constant input voltage.
- *8. Hiccup with automatic recovery. Avoid to operate at over load or short circuit condition.
- *9. OVP circuit will shut down output, manual reset (Re power on).
- *10. Measured by the each measuring method of UL, CSA, EN and Den-an(at 60Hz), Ta=25°C.
- *11. Output Derating
 - Derating at standard mounting. Refer to LOAD vs. AMBIENT TEMPERATURE (CA806-01-02_).
 - Load (%) is percent of maximum output power or maximum output current, do not exceed its derating of maximum load.
- *12. Output derating needed when input voltage less than 100VAC. Refer to LOAD vs. INPUT VOLTAGE (CA806-01-02_).
- *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

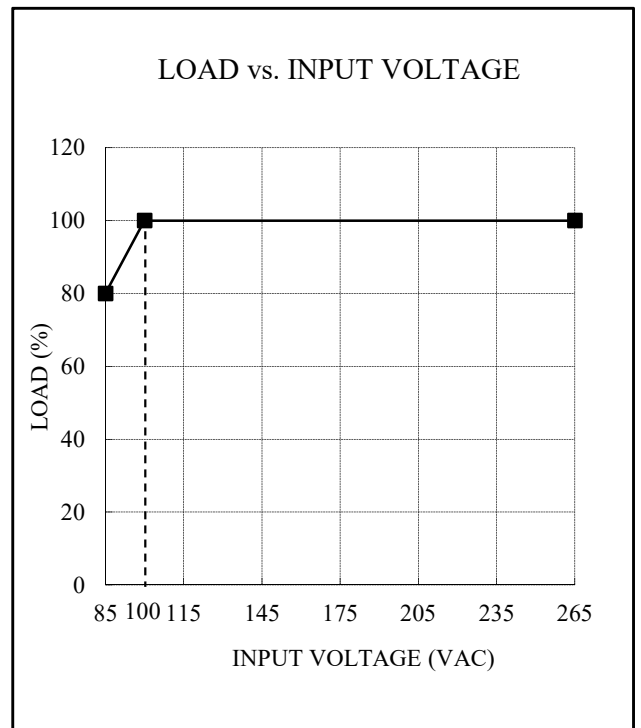
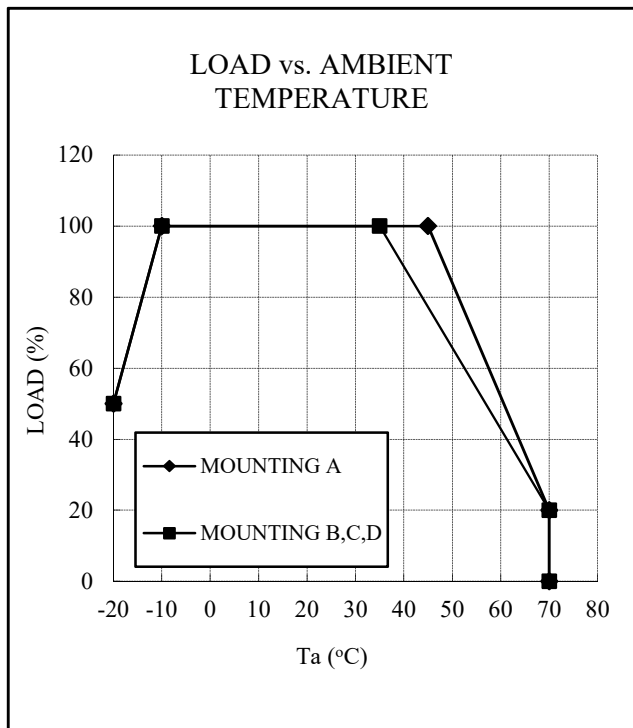
RWS50B

OUTPUT DERATING

CA806-01-02

Ta (°C)	LOAD (%)	
	MOUNTING A	MOUNTING B,C,D
-20	50	50
-10 - +35	100	100
45	100	77
70	20	20

INPUT VOLTAGE (VAC)	LOAD (%)
85	80
100 - 265	100



MOUNTING A

MOUNTING B

MOUNTING C

MOUNTING D

DON'T USE

(STANDARD MOUNTING)

