

RWS50B/DIN

SPECIFICATIONS

CA806-01-01/DIN-D

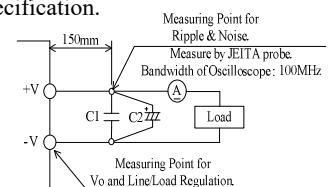
ITEMS		MODEL	RWS50B-5/DIN	RWS50B-12/DIN	RWS50B-24/DIN
1	Nominal Output Voltage	V	5	12	24
2	Maximum Output Current	A	10	4.3	2.2
3	Maximum Output Power	W	50	51.6	52.8
4	Efficiency (Typ) (*1)	100VAC %	77	82	86
		200VAC %	79	84	87
5	Input Voltage Range (*2)(*12)	-	85 - 265VAC (47 - 63Hz) or 120 - 370VDC		
6	Input Current (Typ) (*1)	A	1.1/0.7		
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
9	Maximum Ripple & Noise (*4)(*5)	0≤Ta≤70°C mV	120	150	150
		-20≤Ta<0°C mV	160	180	180
10	Maximum Line Regulation (*6)(*12)	mV	20	48	96
11	Maximum Load Regulation (*7)(*12)	mV	40	96	192
12	Temperature Coefficient	-	Less than 0.02% / °C		
13	Over Current Protection (*8)	A	10.50 -	4.52 -	2.31 -
14	Over Voltage Protection (*9)	V	6.0 - 7.0	14.4 - 16.8	28.8 - 33.6
15	Hold-up Time (Typ)	-	15ms at 100Vac & 100% load, 20ms at 100Vac & 70% load		
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) 9.8m/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, CSA C22.2 No.107.1-01. 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	380		
34	Size (W x H x D)	mm	36 x 122.7 x 92.9 (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, 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/DIN-).
 - 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/DIN-).
- *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/DIN

OUTPUT DERATING

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Ta (°C)	LOAD (%)
	STANDARD MOUNTING
-20	50
-10 - +45	100
70	20

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

