RWS100B

SPECIFICATIONS

CA807-01-01

	ITEMS / MODEL			RWS100B-5	RWS100B-12	RWS100B-24	RWS100B-48
1	Nominal Output Voltage		V	5	12	24	48
2	Maximum Output Current		A	14	8.5	4.5	2.1
3	Maximum Output Power		W	70	102	108	100.8
4	Efficiency (Typ) (*1)(*11)	100VAC	%	77	82	85	85
		200VAC	%	79	84	87	87
5	Input Voltage Range (*2)(*11)		-	85 - 265VAC (47 - 63Hz) or 120 - 370VDC			
6	Input Current (Typ) (*1)(*11)		A	1.0/0.5	1.3/0.7		
7	Inrush Current (Typ) (*1)(*3)(*11)		-	15A at 100VAC, 30A 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	300
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	14.7 -	8.93 -	4.73 -	2.21 -
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 - +40°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		-	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 to 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 (5V,12V,24V), CSA60950-1, CSA C22.2 No.107.1-01. (5V,12V,24V), 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	400			
35	Size (W x H x D)		mm	94 x 39 x 108 (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.

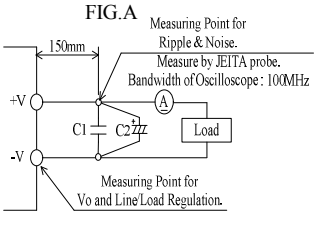
*10. Output Derating
- Derating at standard mounting. Refer to LOAD vs. AMBIENT TEMPERATURE (CA807-01-02_).
- Load (%) is percent of maximum output power or maximum output current, do not exceed its derating of maximum load.

*11. Output derating needed when input voltage less than 110VAC. Refer to LOAD vs. INPUT VOLTAGE (CA807-01-02_).

*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

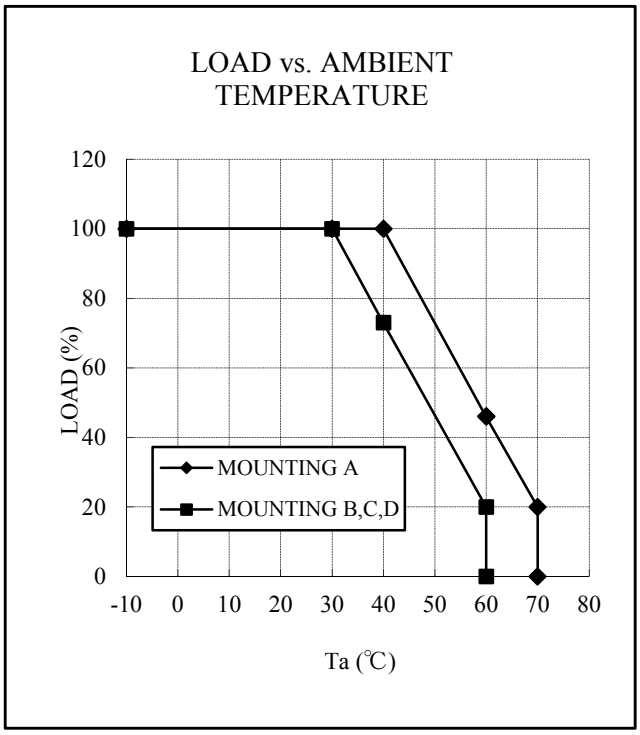
RWS100B

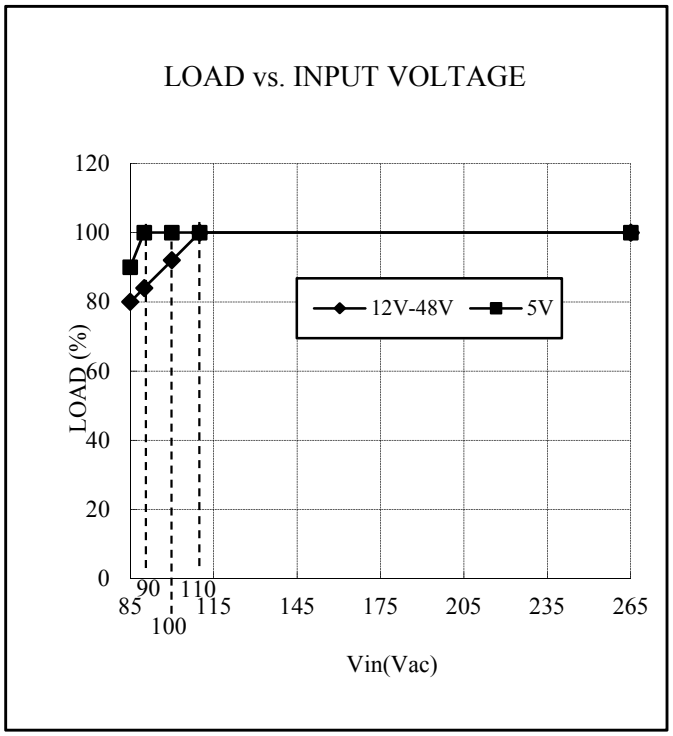
OUTPUT DERATING

CA807-01-02

Ta (°C)	LOAD (%)	
	MOUNTING A	MOUNTING B,C,D
-10 - +30	100	100
40	100	73
60	46	20
70	20	0

INPUT VOLTAGE (VAC)	LOAD (%) 12V - 48V	LOAD (%) 5V
85	80	90
90	84	100
100	92	100
110 - 265	100	100





MOUNTING A (STANDARD MOUNTING) | MOUNTING B | MOUNTING C | MOUNTING D | DON'T USE