

RWS100B

SPECIFICATIONS

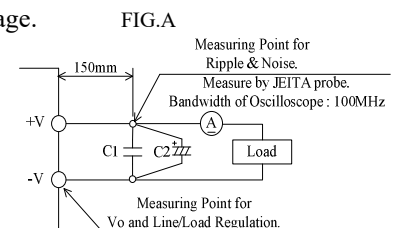
CA807-01-01E

ITEMS		MODEL	RWS100B -5	RWS100B -12	RWS100B -15	RWS100B -24	RWS100B -48
1	Nominal Output Voltage	V	5	12	15	24	48
2	Maximum Output Current	A	14	8.5	6.8	4.5	2.1
3	Maximum Output Power	W	70	102	102	108	100.8
4	Efficiency (Typ) (*1)(*11)	100/115VAC	% 77/77.5	82/83	83/84	85/86	85/86
		200/230VAC	% 79/79	84/84	85/85	87/87.5	87/87
5	Input Voltage Range	(*2)(*11)	85 - 265VAC (47 - 63Hz) or 120 - 370VDC				
6	Input Current (Typ) (*1)(*11)	100/115VAC	A 1.0/0.9	1.3/1.2			
		200/230VAC	A 0.5/0.45	0.7/0.6			
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 at 100VAC, 0.90 at 200VAC				
10	Output Voltage Range	V	4.50 - 5.75	10.8 - 13.8	13.5 - 17.25	21.6 - 27.6	43.2 - 52.8
11	Maximum Ripple & Noise (*4)	0<Ta<70°C	mV 120	150	150	150	200
		-20≤Ta<0°C	mV 160	180	180	180	300
12	Maximum Line Regulation	(*5)(*11)	mV 20	48	60	96	192
13	Maximum Load Regulation	(*6)(*11)	mV 40	96	120	192	384
14	Temperature Coefficient	-	Less than 0.02%/°C				
15	Over Current Protection	(*7)	A 14.7 -	8.93 -	7.14 -	4.73 -	2.21 -
16	Over Voltage Protection	(*8)	V 6.0 - 7.0	14.4 - 16.8	18.0 - 21.0	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 - +70°C (-20°C: 50%, -10 - +45°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 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.				
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	400				
36	Size (W x H x D)	mm	39 x 94 x 108 (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. 85 - 265VAC, constant load.
- *6. No load-Full load, constant input voltage.
- *7. 5V - 15V 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 (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.



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

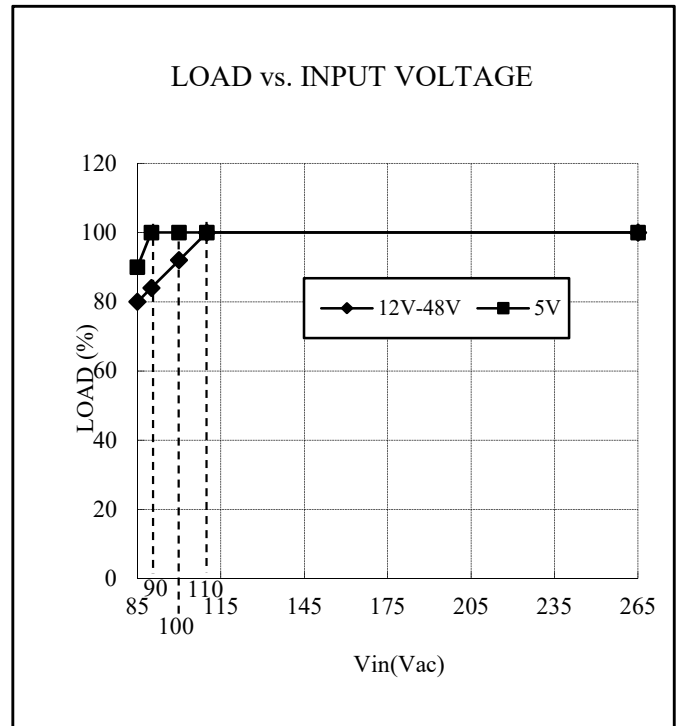
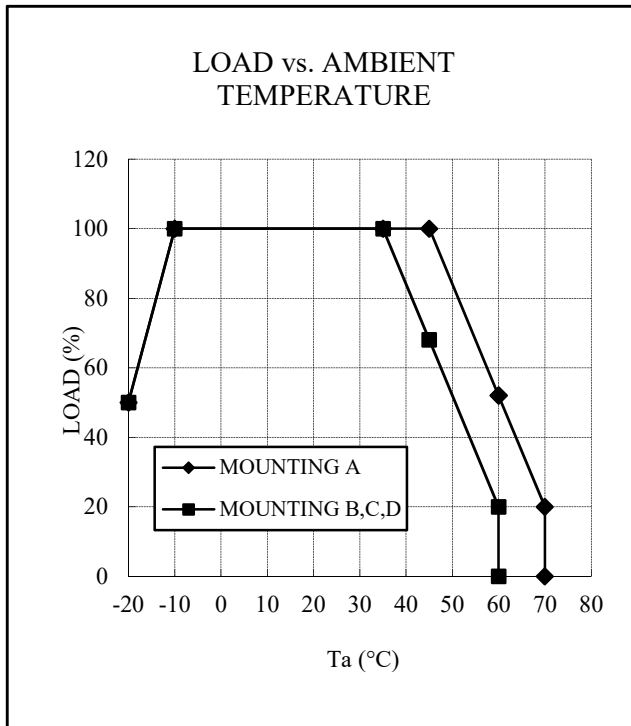
RWS100B

OUTPUT DERATING

CA807-01-02A

Ta (°C)	LOAD (%)	
	MOUNTING A	MOUNTING B,C,D
-20	50	50
-10 - +35	100	100
45	100	68
60	52	20
70	20	0

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



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

(STANDARD MOUNTING)

