

RWS100B/DIN

SPECIFICATIONS

CA807-01-01/DIN-D

ITEMS		MODEL	RWS100B-24/DIN
1	Nominal Output Voltage	V	24
2	Maximum Output Current	A	4.5
3	Maximum Output Power	W	108
4	Efficiency (Typ) (*1)(*11)	100VAC	% 85
		200VAC	% 87
5	Input Voltage Range (*2)(*11)	-	85 - 265VAC (47 - 63Hz) or 120 - 370VDC
6	Input Current (Typ) (*1)(*11)	A	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	21.6 - 27.6
11	Maximum Ripple & Noise (*4)	0≤Ta≤70°C	mV 150
		-20≤Ta<0°C	mV 180
12	Maximum Line Regulation (*5)(*11)	mV	96
13	Maximum Load Regulation (*6)(*11)	mV	192
14	Temperature Coefficient	-	Less than 0.02% / °C
15	Over Current Protection (*7)	A	4.73 -
16	Over Voltage Protection (*8)	V	28.8 - 33.6
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) 9.8m/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, CSA C22.2 No.107.1-01. 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	680
36	Size (W x H x D)	mm	41 x 134.5 x 119.9 (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. 85 - 265VAC, constant load.

*6. No load-Full load, constant input voltage.

*7. 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/DIN-).

- 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/DIN-).

*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

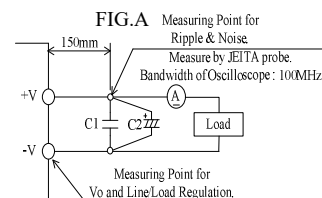


FIG. A Measuring Point for Ripple & Noise
Measure by JETA probe.
Bandwidth of Oscilloscope: 100MHz

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

RWS100B/DIN

OUTPUT DERATING

CA807-01-02/DIN-A

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

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

