

**RWS600B/RFO**

SPECIFICATIONS

A262-01-01/RFO-D

ITEMS		MODEL	RWS600B -5/RFO	RWS600B -12/RFO	RWS600B -15/RFO	RWS600B -24/RFO	RWS600B -36/RFO	RWS600B -48/RFO	
1	Nominal Output Voltage	V	5	12	15	24	36	48	
2	Maximum Output Current	A	100	50	40	25	16.7	12.5	
3	Maximum Output Power	W	500	600	600	600	601.2	600	
4	Efficiency (Typ) (*1)(*11)	100VAC	%	74	81	81	84	85	85
		200VAC	%	77	84	84	88	88	88
5	Input Voltage Range (*2)(*11)	-	85 - 265VAC (47 - 63Hz) or 120 - 330VDC						
6	Input Current (Typ) (*1)(*11)	A	6.5/3.6	7.2/4.0					
7	Inrush Current (Typ) (*1)(*3)(*11)	-	20A at 100VAC, 40A at 200VAC, Ta=25°C						
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	13.5 - 17.2	21.6 - 27.6	32.4 - 41.4	43.2 - 52.8	
11	Maximum Ripple & Noise (*4)	0≤Ta≤70°C	mV	120	150	150	150	200	200
		-20≤Ta<0°C	mV	160	180	180	180	240	500
12	Maximum Line Regulation (*5)(*11)	mV	20	48	60	96	144	192	
13	Maximum Load Regulation (*6)(*11)	mV	40	96	120	192	288	384	
14	Temperature Coefficient	-	Less than 0.02% / °C						
15	Over Current Protection (*7)	A	105.0 -	52.5 -	42.0 -	26.3 -	17.5 -	13.1 -	
16	Over Voltage Protection (*8)	V	6.0 - 7.0	14.4 - 16.8	18.0 - 21.0	28.8 - 33.6	43.2 - 50.4	55.2 - 64.8	
17	Hold-up Time (Typ) (*12)	-	20ms						
18	Leakage Current (*9)	-	Less than 0.75mA						
19	Remote Sensing	-	Possible (Refer to Instruction Manual)						
20	Monitoring Signal	-	LV : Open Collector Output (Refer to Instruction Manual)						
21	Remote Control	-	Possible (Refer to Instruction Manual)						
22	Series Operation	-	Possible (Refer to Instruction Manual)						
23	Parallel Operation	-	Possible (Refer to Instruction Manual)						
24	Operating Temperature (*10)(*11)	-	-20 - +70°C (-20 - +50°C:100%, +70°C:50%)						
25	Operating Humidity	-	30 - 90%RH (No Condensing)						
26	Storage Temperature	-	-30 - +75°C						
27	Storage Humidity	-	10 - 90%RH (No Condensing)						
28	Cooling	-	Forced Air Cooling						
29	Withstand Voltage	-	Input - FG : 2kVAC (20mA), Input - Output : 3kVAC (20mA)						
		-	Output - FG : 500VAC (100mA) for 1min						
30	Isolation Resistance	-	More than 100MΩ at 25°C and 70%RH Output to Chassis : 500VDC						
31	Vibration	-	At no operating, 10 - 55Hz (Sweep for 1min) 19.6m/s <sup>2</sup> Constant, X,Y,Z 1hour each.						
32	Shock	-	Less than 196.1m/s <sup>2</sup>						
33	Safety	-	Approved by UL62368-1, CSA62368-1, EN62368-1, UL60950-1, CSA60950-1, EN60950-1 (Expire date of 60950-1 : 20/12/2020) UL508 (24V Only), CSA C22.2 No.107.1-01. (24V Only). Designed to meet Den-an Appendix 8 at 100VAC only.						
34	Line DIP	-	Designed to meet SEMI-F47 (200VAC Line only)						
35	Conducted Emission (*14)	-	Designed to meet EN55011/EN55032-B, FCC-B, VCCI-B						
36	Radiated Emission (*13)(*14)	-	Designed to meet EN55011/EN55032-B, FCC-B, VCCI-B						
37	Immunity (*14)	-	Designed to meet IEC61000-6-2 IEC61000-4-2, -3, -4, -5, -6, -8, -11						
38	Weight (Typ)	g	1600						
39	Size (W x H x D)	mm	61 x 120 x 190 ( 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 in-rush 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 (A262-01-02/RFO- ).

- 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 (A262-01-02/RFO- ).

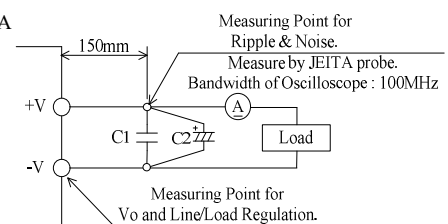
\*12. At 110VAC/200VAC, Ta=25°C, nominal output voltage and maximum output power.

\*13. With clamp filter (TDK ZCAT3035-1330) on input line.

\*14. 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

**RWS600B/RFO**

OUTPUT DERATING

A262-01-02/RFO-A

Ta (°C)	LOAD (%)
	MOUNTING A-D
-20 - +50	100
70	50

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

