

RWS1500B/RF

A274-01-01/RF-B

SPECIFICATIONS (1/2)

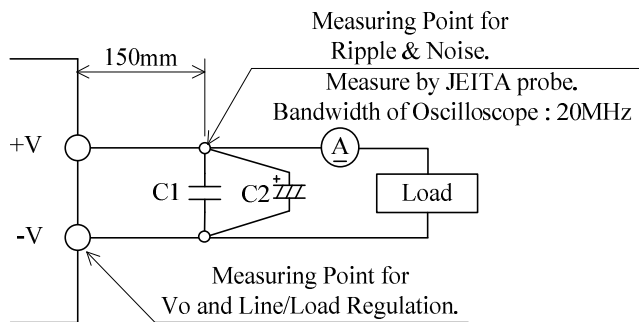
| ITEMS | | MODEL | RWS1500B -12/RF | RWS1500B -15/RF | RWS1500B -24/RF | RWS1500B -36/RF | RWS1500B -48/RF | |
|-------|--------------------------------|------------|--------------------|--|--------------------|--------------------|--------------------|-------------|
| 1 | Nominal Output Voltage | V | 12 | 15 | 24 | 36 | 48 | |
| 2 | Maximum Output Current | A | 125 | 100 | 63 | 42 | 32 | |
| 3 | Maximum Output Power | W | 1500 | 1500 | 1512 | 1512 | 1536 | |
| 4 | Efficiency (Typ) (*13) | 100/115VAC | % | 81/82 | 81/82 | 85/85 | 85/85 | 84/85 |
| | | 200/230VAC | % | 84/85 | 84/85 | 88/88 | 88/88 | 87/88 |
| 5 | Input Voltage Range | (*2)(*11) | - | 85 - 265VAC (47 - 63Hz) or 120 - 340VDC | | | | |
| 6 | Input Current (Typ) (*13) | 100/115VAC | A | 19 / 16 | | | | |
| | | 200/230VAC | A | 10 / 8 | | | | |
| 7 | Inrush Current (Typ) | (*1)(*3) | - | 20A / 40A at 1st Inrush , 60A / 60A at 2nd Inrush | | | | |
| 8 | PFHC | | - | Designed to meet IEC61000-3-2 | | | | |
| 9 | Power Factor (Typ) | (*1) | - | 0.98/0.95 | | | | |
| 10 | Output Voltage Range | V | 10.2 - 14.4 | 12.8 - 18.0 | 20.4 - 28.8 | 30.6 - 43.2 | 40.8 - 57.6 | |
| 11 | Maximum Ripple & Noise (*4) | 0≤Ta≤70°C | mV | 150 | 150 | 180 | 250 | 300 |
| | | -20≤Ta<0°C | mV | 180 | 180 | 200 | 300 | 400 |
| 12 | Maximum Line Regulation | (*5)(*11) | mV | 48 | 60 | 96 | 144 | 192 |
| 13 | Maximum Load Regulation | (*6)(*11) | mV | 96 | 120 | 144 | 216 | 288 |
| 14 | Temperature Coefficient | | - | Less than 0.02% / °C | | | | |
| 15 | Over Current Protection | (*7) | A | 131.3 - | 105.0 - | 66.2 - | 44.1 - | 33.6 - |
| 16 | Over Voltage Protection | (*8) | V | 15.0 - 18.0 | 18.8 - 22.5 | 30.0 - 36.0 | 45.0 - 54.0 | 60.0 - 72.0 |
| 17 | Hold-up Time (Typ) | (*1) | - | 20ms | | | | |
| 18 | Leakage Current | (*9) | - | Less than 1.2mA | | | | |
| 19 | Remote Sensing | (*14) | - | Possible | | | | |
| 20 | Monitoring Signal | | - | - | | | | |
| 21 | Remote Control | | - | - | | | | |
| 22 | Parallel Operation | | - | - | | | | |
| 23 | Series Operation | (*14) | - | Possible | | | | |
| 24 | Operating Temperature | (*10)(*11) | - | -20 - +70°C (-20 - +50°C:100%, +60°C:75%, +70°C:50%) | | | | |
| 25 | Operating Humidity | | - | 20 - 90%RH (No Condensing) | | | | |
| 26 | Storage Temperature | | - | -30 - +75°C | | | | |
| 27 | Storage Humidity | | - | 10 - 90%RH (No Condensing) | | | | |
| 28 | Cooling | | - | Forced Air Cooling (Intake fan) | | | | |
| 29 | Withstand Voltage | | - | Input - FG : 2kVAC (20mA), Input - Output : 4kVAC (20mA) Output - FG : 1.5kVAC (20mA) 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 ² Constant, X,Y,Z 1hour each. | | | | |
| 32 | Shock | | - | Less than 196m/s ² | | | | |
| 33 | Safety | | - | Approved by UL62368-1, CSA62368-1, EN62368-1, UL60950-1, CSA60950-1, EN60950-1 (Expire date of 60950-1 : 20/12/2020) Designed to meet Den-an Appendix 12 (J60950-1). | | | | |
| 34 | Line DIP | | - | Designed to meet SEMI-F47 (200VAC Line only) | | | | |
| 35 | Conducted Emission | (*12) | - | Designed to meet EN55011/EN55032-B, FCC-B, VCCI-B | | | | |
| 36 | Radiated Emission | (*12) | - | Designed to meet EN55011/EN55032-B, FCC-B, VCCI-B | | | | |
| 37 | Immunity | (*12) | - | Designed to meet IEC61000-6-2 IEC61000-4-2, -3, -4, -5, -6, -8, -11 | | | | |
| 38 | Weight (Typ) | g | | 3000 | | | | |
| 39 | Size (W x H x D) | mm | | 127 x 63 x 261 (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. Constant current limit with automatic recovery. Over current condition for more than 5 seconds will cause the output to shut down. 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
 - Refer to LOAD vs. AMBIENT TEMPERATURE(A274-01-02/RF-).
 - 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 90VAC. Refer to LOAD vs. INPUT VOLTAGE(A274-01-02/RF-).
- *12. 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.
- *13. Ta=25°C, nominal output voltage and maximum output power.
- *14. Refer to instruction manual(A273-04-01).

Fig.A



C1 : Film Cap. 0.1μF
C2 : Elect. Cap. 47μF

RWS1500B/RF

OUTPUT DERATING

A274-01-02/RF

| Ta (°C) | LOAD (%) |
|-----------|--------------|
| | MOUNTING A-D |
| -20 - +50 | 100 |
| 60 | 75 |
| 70 | 50 |

| INPUT VOLTAGE (VAC) | LOAD (%) |
|---------------------|--------------|
| | MOUNTING A-D |
| 85 | 80 |
| 90 - 265 | 100 |

