

TDK-Lambda RWS1000/1500-B/ME Series

1000W to 1500W Single Output Medical Power Supplies

Features

- ◆ Cost Effective
- ◆ Wide Range AC Input 85 - 265VAC
- ◆ Enclosed Construction
- ◆ Compact Sizes
- ◆ 7 Year Warranty



Key Market Segments & Applications



Medical



RoHS

| Specifications | | | |
|-------------------------------------|-------|---|-------------------|
| Model | | RWS1000B/ME | RWS1500B/ME |
| AAC Input Voltage range (1) | VAC | 85 - 265VAC (47 - 63Hz) | |
| DC Input Voltage range* | VDC | 120 - 340VDC* | |
| Inrush Current (100 / 200VAC) | A | 60 / 60A | |
| Power Factor (100 / 200VAC) | - | Meets EN61000-3-2 (0.98 / 0.95) | |
| Input Current (100/200VAC) (Typ) | A | 13 / 7A | 19 / 10A |
| Temperature Coefficient | %/°C | <0.02%/°C | |
| Regulation | - | See Model Selector | |
| Overcurrent Protection | - | >105%, Constant Current Style. After 5s unit will shutdown | |
| Overvoltage Protection | V | 120-145% (115-125% for 48V), Cycle AC line to reset | |
| Hold Up Time (Typ at 100% load) | ms | 20ms | |
| Leakage Current (max) | mA | <0.3mA | |
| Remote Sense | - | Yes | |
| Remote On/Off | - | See options table. Apply external voltage to enable output voltage | |
| DC Good, Fan Alarm | - | See options table | |
| Parallel Operation | - | See options table | |
| Series Operation | - | Yes | |
| Operating Temperature | °C | -20 to +60°C, derate linearly to 60% load from 50 to 60°C | |
| Storage Temperature | °C | -30 to +75°C | |
| Operating Humidity (non condensing) | %RH | 20 - 90%RH | |
| Storage Humidity (non condensing) | %RH | 10 - 90%RH | |
| Cooling | - | Internal Fan, air intake from input/output terminals | |
| Withstand Voltage | VAC | Input to Ground 2kVAC (1xMoPP), Input to Output 4kVAC (2xMoPP), Output to Ground 1.5kVAC (1xMoPP) for 1 min. | |
| Isolation Resistance | MΩ | >100MΩ at 25°C & 70%RH, Output to Ground 500VDC | |
| Vibration (non operating) | - | 10 - 55Hz: 19.6m/s ² (sweep 1 min) X, Y, Z for 1 hour | |
| Shock | - | < 196.1 m/s ² | |
| Safety Agency Certifications | - | ES60601-1, CSA60601, EN60601-1, CE Mark | |
| Line Dips | - | SEMI-F47 (200VAC input) | |
| Conducted & Radiated EMI | - | EN55011 / EN55032-A, FCC Class A, VCCI-A | |
| Immunity | - | IEC61000-4-2, -3, -4, -5, -6, -8, -11, IEC61000-6-2, EN60601-1-2 | |
| Weight (Typ) | g | 2,000g | 3,000g |
| Size (WxHxD) | mm | 127 x 63 x 198mm | 127 x 63 x 261mm |
| | In | 5 x 2.48 x 7.8" | 5 x 2.48 x 10.28" |
| MTBF - Telcordia SR-332 issue 3** | hours | 1,834,313 | 1,222,361 |
| Warranty | ys | Seven Years | |

*Safety certified for AC input only

**24V output model, 25°C ambient, full load, 230VAC input

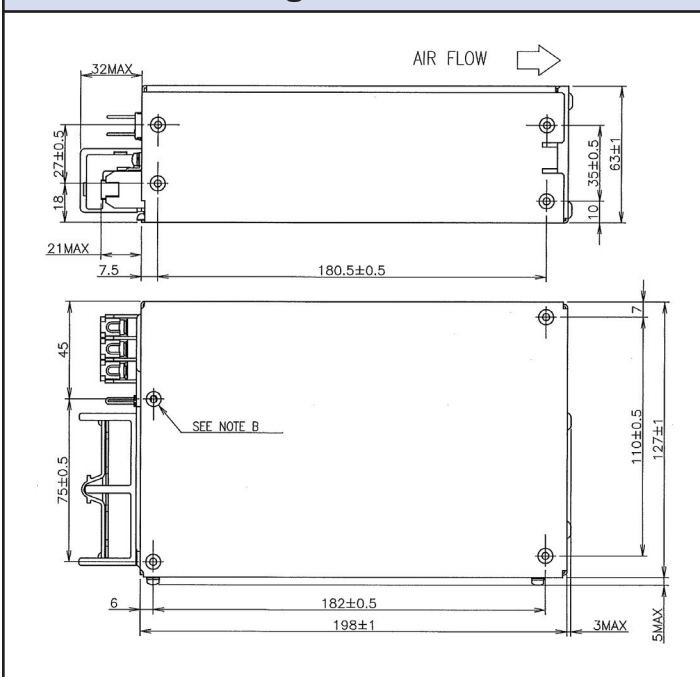
(1) Derate linearly to 80% load from 90 to 85VAC input

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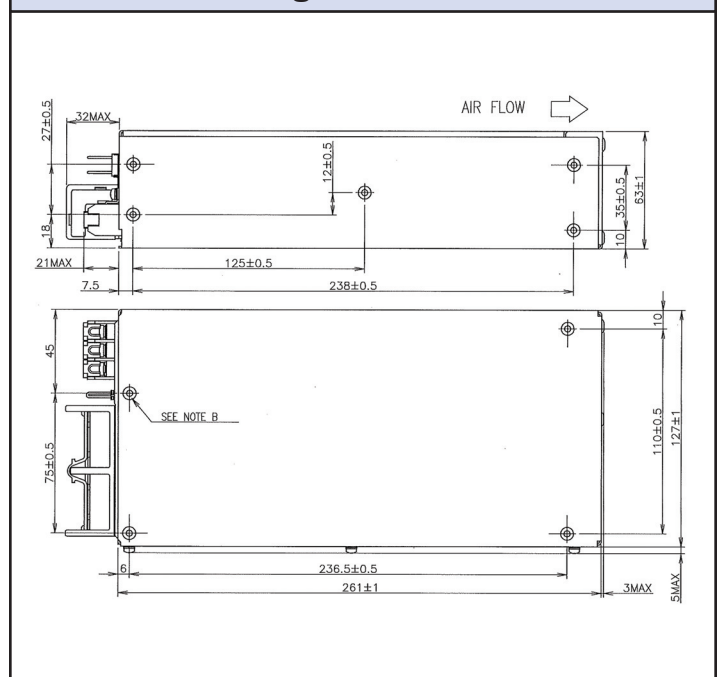
Output Ratings

| Model | Voltage | Adjust Range (V) | Max Current (A) | Max Output Power (w) | Load Reg (mV) | Line Reg (mV) | Ripple Noise (mV) | Efficiency (typ) % 115/230VAC |
|----------------|---------|------------------|-----------------|----------------------|---------------|---------------|-------------------|----------------------------------|
| RWS1000B-12/ME | 12V | 10.2-13.8V | 84 | 1008 | 96 | 48 | 150 | 82 / 85 |
| RWS1500B-12/ME | 12V | 10.2-13.8V | 125 | 1500 | 96 | 48 | 150 | 81 / 85 |
| RWS1000B-15/ME | 15V | 12.8-17.2V | 67 | 1005 | 120 | 60 | 150 | 82 / 85 |
| RWS1500B-15/ME | 15V | 12.8-17.2V | 100 | 1500 | 120 | 60 | 150 | 82 / 85 |
| RWS1000B-24/ME | 24V | 20.4-27.6V | 42 | 1008 | 144 | 96 | 180 | 85 / 88 |
| RWS1500B-24/ME | 24V | 20.4-27.6V | 63 | 1512 | 144 | 96 | 180 | 85 / 88 |
| RWS1000B-36/ME | 36V | 30.6-41.4 | 28 | 1008 | 216 | 144 | 250 | 85 / 88 |
| RWS1500B-36/ME | 36V | 30.6-41.4 | 42 | 1512 | 216 | 144 | 250 | 85 / 88 |
| RWS1000B-48/ME | 48V | 40.8-52.8 | 21 | 1008 | 288 | 192 | 300 | 85 / 88 |
| RWS1500B-48/ME | 48V | 40.8-52.8 | 32 | 1536 | 288 | 192 | 300 | 85 / 88 |

Outline Drawing RWS 1000B



Outline Drawing RWS 1500B



Options (Contact Sales for availability)

| Suffix | Description |
|--------|--|
| /CO2 | Double Sided Board Coating |
| /FO | Parallel Operation, DC Good and Fan Alarm Signals |
| /R | Remote On/Off |
| /RF | Reverse Fan (Air exits over input/output terminals) |
| /RFO | Remote On/Off, Parallel Operation, DC Good and Fan Alarm Signals |

For Additional Information, please visit
us.tdk-lambda.com/lp/products/rwsb-series.htm

