

# 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
- ◆ Suitable for B & BF Rated Equipment
- ◆ 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),<br>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 <sup>2</sup> (sweep 1 min) X, Y, Z for 1 hour                                                |                   |
| Shock                               | -     | < 196.1 m/s <sup>2</sup>                                                                                        |                   |
| 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                            | yrs   | Seven Years                                                                                                     |                   |

\*Safety certified for AC input only

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

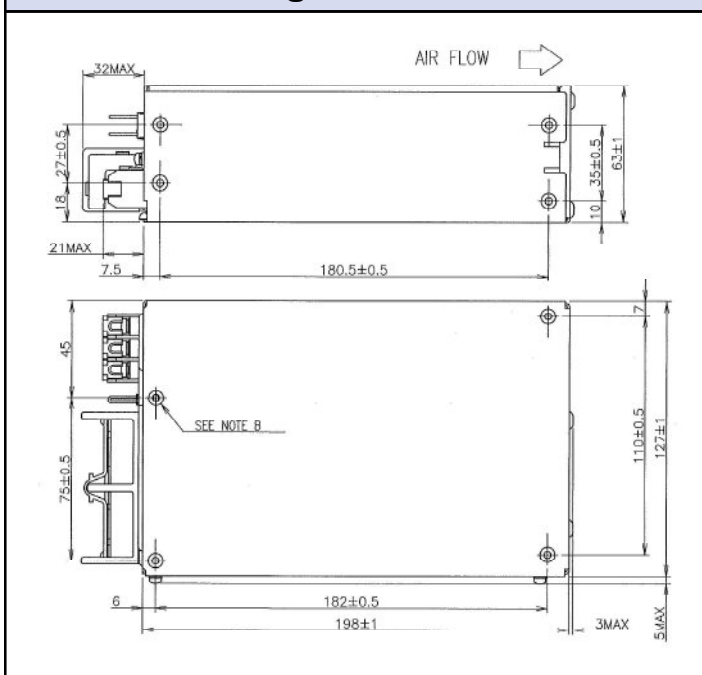
(1) Derate linearly to 80% load from 90 to 85VAC input

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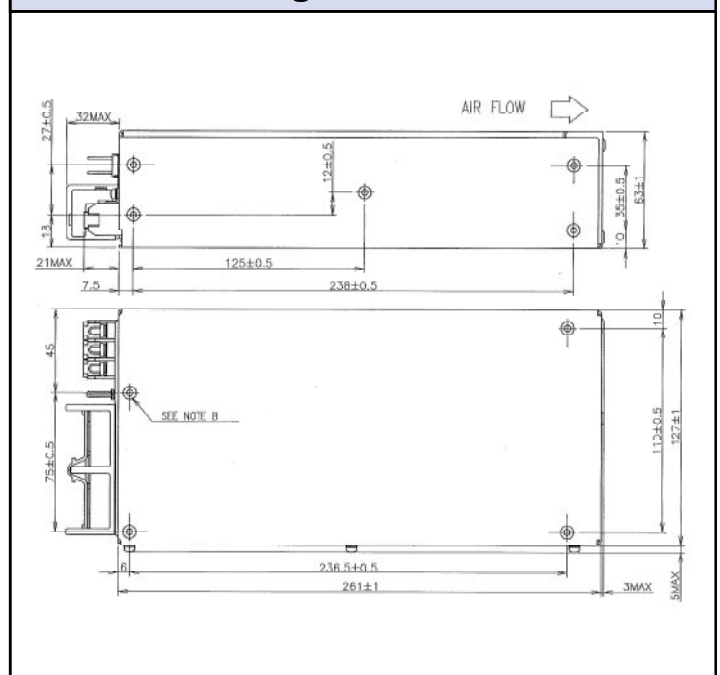
## Output Ratings

| Model          | Voltage | Adjust Range (V) | Max Current (A) | Max Output Power (w) | Load Reg (mV) | Line Reg (mV) | Ripple Noise (mV) | Efficiency (typ) %<br>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  
<https://product.tdk.com/info/en/products/power/index.html>



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