## DT100/150-D Series

### Features
- DOE level VI and EU tier 2 Efficiency Levels
- >89% Average Efficiency
- <150mW Off-load Power Draw
- Wide Range AC Input
- Power Factor Correction

### Key Market Segments & Applications

### Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>DT100PWxxx-D</th>
<th>DT150PWxxx-D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Voltage range</td>
<td>90 - 264VAC (47 - 63Hz)</td>
<td>90 - 264VAC (47 - 63Hz)</td>
</tr>
<tr>
<td>Inrush Current</td>
<td>A</td>
<td>150A at 230VAC input, 25°C ambient cold start</td>
</tr>
<tr>
<td>Input Current (Maximum)</td>
<td>A</td>
<td>2.5A</td>
</tr>
<tr>
<td>Power Factor</td>
<td>-</td>
<td>Typically 0.9 at full load, 230VAC (Meets EN61000-3-2)</td>
</tr>
<tr>
<td>Leakage Current</td>
<td>uA</td>
<td>&lt;300uA at 264VAC input</td>
</tr>
<tr>
<td>Hold Up Time (Typ)</td>
<td>ms</td>
<td>16ms at 115VAC input</td>
</tr>
<tr>
<td>Temperature Coefficient</td>
<td>%/%°C</td>
<td>±0.05%/°C</td>
</tr>
<tr>
<td>Voltage Accuracy</td>
<td>%</td>
<td>±1%</td>
</tr>
<tr>
<td>Adjustment Range</td>
<td>V</td>
<td>None</td>
</tr>
<tr>
<td>Minimum Load</td>
<td>A</td>
<td>None</td>
</tr>
<tr>
<td>Total Regulation</td>
<td>%</td>
<td>See model selector</td>
</tr>
<tr>
<td>Ripple &amp; Noise</td>
<td>%</td>
<td>See model selector</td>
</tr>
<tr>
<td>Short Circuit Protection</td>
<td>-</td>
<td>Continuous - hiccup mode</td>
</tr>
<tr>
<td>Overvoltage Protection</td>
<td>V</td>
<td>110 - 130% of nominal (Cycle input power to reset)</td>
</tr>
<tr>
<td>Efficiency</td>
<td>%</td>
<td>&gt;89% Avg Active Efficiency</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>°C</td>
<td>-20 to +60°C, de-rate linearly to 50% load from 40 to 60°C</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>°C</td>
<td>-20 to +70°C</td>
</tr>
<tr>
<td>Humidity (non condensing)</td>
<td>%RH</td>
<td>10 - 90%RH</td>
</tr>
<tr>
<td>Cooling</td>
<td>-</td>
<td>Convection</td>
</tr>
<tr>
<td>Withstand Voltage</td>
<td>VAC</td>
<td>Input to Ground 1.5kVAC, Input to Output 3kVAC, Output to Ground 500VDC*</td>
</tr>
<tr>
<td>Vibration (non operating)</td>
<td>-</td>
<td>23.52m/s² (10 - 55Hz: constant sweep 1 min X, Y, Z for 1 hour)</td>
</tr>
<tr>
<td>Shock</td>
<td>-</td>
<td>&lt; 196.1 m/s² (20G)</td>
</tr>
<tr>
<td>Safety Agency Approvals</td>
<td>-</td>
<td>UL/CSA/EN/IEC62368-1, UL/CSA/EN/IEC60950-1, CE Mark</td>
</tr>
<tr>
<td>Efficiency Level</td>
<td>-</td>
<td>VI</td>
</tr>
<tr>
<td>Offload Power Consumption</td>
<td>W</td>
<td>&lt; 0.15W</td>
</tr>
<tr>
<td>Conducted &amp; Radiated EMI</td>
<td>-</td>
<td>EN55022-B, FCC Class B</td>
</tr>
<tr>
<td>Immunity</td>
<td>-</td>
<td>EN55024</td>
</tr>
<tr>
<td>Weight (Typ)</td>
<td>g</td>
<td>780g</td>
</tr>
<tr>
<td>Size (WxLxH)</td>
<td>mm (in)</td>
<td>85 x 170 x 44 (3.35 x 6.7 x 1.73&quot;)</td>
</tr>
<tr>
<td>Cable Length and Thickness</td>
<td>mm</td>
<td>1050mm; 12 to 16V Models: UL2464 #16 AWG, 19 to 48V Models: UL2464 #18 AWG</td>
</tr>
<tr>
<td>AC Input Connector</td>
<td>-</td>
<td>IEC 320-C14 (Accepts IEC 320-C13)</td>
</tr>
<tr>
<td>Output Connector</td>
<td>-</td>
<td>Kycon KPPX-4P or equivalent Pins 1 &amp; 2: -Vout, Pins 3 &amp; 4: +Vout</td>
</tr>
<tr>
<td>MTBF</td>
<td>hrs</td>
<td>140,000 hours, 100% load, 25°C ambient, MIL-HNBK</td>
</tr>
<tr>
<td>Warranty</td>
<td>yrs</td>
<td>Three years</td>
</tr>
</tbody>
</table>

* Versions available for output to be internally connected to ground. Contact factory.
### Output Ratings

<table>
<thead>
<tr>
<th>Model</th>
<th>Output (V)</th>
<th>Maximum Output (A)</th>
<th>Maximum Power (W)</th>
<th>Output Regulation</th>
<th>Ripple &amp; Noise (mV)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DT100PW120D</td>
<td>12</td>
<td>8.34</td>
<td>100</td>
<td>±5%</td>
<td>240</td>
</tr>
<tr>
<td>DT100PW160D</td>
<td>16</td>
<td>6.25</td>
<td>100</td>
<td>±5%</td>
<td>320</td>
</tr>
<tr>
<td>DT100PW190D</td>
<td>19</td>
<td>5.27</td>
<td>100</td>
<td>±5%</td>
<td>380</td>
</tr>
<tr>
<td>DT100PW240D</td>
<td>24</td>
<td>4.17</td>
<td>100</td>
<td>±3%</td>
<td>480</td>
</tr>
<tr>
<td>DT100PW360D</td>
<td>36</td>
<td>2.78</td>
<td>100</td>
<td>±3%</td>
<td>480</td>
</tr>
<tr>
<td>DT100PW480D</td>
<td>48</td>
<td>2.09</td>
<td>100</td>
<td>±3%</td>
<td>480</td>
</tr>
<tr>
<td>DT150PW120D</td>
<td>12</td>
<td>11.67</td>
<td>140</td>
<td>±5%</td>
<td>240</td>
</tr>
<tr>
<td>DT150PW160D</td>
<td>16</td>
<td>9.38</td>
<td>150</td>
<td>±5%</td>
<td>320</td>
</tr>
<tr>
<td>DT150PW190D</td>
<td>19</td>
<td>7.90</td>
<td>150</td>
<td>±5%</td>
<td>380</td>
</tr>
<tr>
<td>DT150PW240D</td>
<td>24</td>
<td>6.25</td>
<td>150</td>
<td>±3%</td>
<td>480</td>
</tr>
<tr>
<td>DT150PW360D</td>
<td>36</td>
<td>4.17</td>
<td>150</td>
<td>±3%</td>
<td>480</td>
</tr>
<tr>
<td>DT150PW480D</td>
<td>48</td>
<td>3.13</td>
<td>150</td>
<td>±3%</td>
<td>480</td>
</tr>
</tbody>
</table>

### Other TDK-Lambda Adapters

- **DT62-D**: 65W Level VI Compliant Adapters
- **DTM65-C**: 65W Level V Compliant Medical Adapters
- **DT80-D**: 80W Level VI Compliant Adapters
- **DTM110-C**: 110W Level V Compliant Medical Adapters
- **DTM165-C**: 165W Level V Compliant Medical Adapters

For Additional Information, please visit [https://product.tdk.com/en/power/](https://product.tdk.com/en/power/)