TDM65-DL & TDM65-DLS
Medical Grade 65W Power Adapters for Dell Laptops

FEATURES
- IEC 320 C6 & C8 Inlets
- 19.5V @ 3.33A Output Power
- 7.4 x 5.1mm & 4.5 x 2.9mm DC Plugs
- Dell Laptops Compatible Smart Charging Pin
- Class I & Class II with 2 MOPP
- LED Power Indicator
- IEC/EN/UL 60601-1 Ed. 3.1 Approved
- CEC, DoE Level VI & ErP Stage 2 Compliant

INPUT SPECIFICATIONS
- Input Voltage Range: 90-264 VAC
- Input Frequency: 47-63 Hz
- Input Current: 1.6A rms @ 115 VAC
- Inrush Current: 80A @ 230 VAC, at 25°C cold start
- Touch Current: 100 µA max. @ 240 VAC
- Earth Leakage Current: 300 µA max. @ 240 VAC (Class I)

OUTPUT SPECIFICATIONS
- Output Voltage: 19.5V DC
- Output Current: 3.33A max.
- Output Power: 65W max.
- No Load Power Cons.: 0.05W typical
- Line Regulation: ±1% max.
- Load Regulation: ±5% max.
- Ripple and Noise*: 1% peak to peak max.
- Overvoltage Protection: Set at 150% of its nominal output voltage; Shutdown
- Short Circuit Protection: Shutdown; Auto recovery
- Overcurrent Protection: Set at 170% of its nominal input voltage; Shutdown
- Temperature Coefficient: ±0.04%/°C max.
- Transient Response: 0.5 ms @ 50% load change

* Measured with 20MHz bandwidth at rated line voltage and output load ranges, with a 10µF lower ERS electrolytic capacitor in parallel with a 0.1µF multilayer capacitor in parallel across the output at nominal input and full load.

GENERAL SPECIFICATIONS
- Power Factor: 0.9 min.
- Average Efficiency: 88% min.
- Hold-up Time: 10 ms @ full load
- Operating Temperature: 0°C to +40°C
- Storage Temperature: -20°C to +80°C
- Operating Humidity: 20% to 80% non-condensing
- Storage Humidity: 10% to 90% non-condensing
- Withstand Voltage: 4,000 VAC, input-output (2 MOPP)
- 1,500 VAC, input-ground (1 MOPP)
- MTBF: 300 kHrs minimum at full load, 25°C ambient, calculated per Telecordia SR-332

STANDARDS & COMPLIANCE
- IEC 60601-1-2:2014 EMC & Immunity Performance
- EN 55011, CISPR 11, FCC: Class B, conducted & radiated
- EN 61000-3-2: Harmonic distortion, Class A
- EN 61000-3-3: Line fluctuations & flicker
- EN 61000-4-2: ESD, ±15 KV air and ±8 KV contact
- EN 61000-4-3: Radiated immunity, 10V/m
- EN 61000-4-4: Fast transient/burst, ±2 KV
- EN 61000-4-5: Surge, ±1 KV diff., ±2 KV com.
- EN 61000-4-6: Conducted immunity, 6 Vrms
- EN 61000-4-8: Magnetic field immunity, 30A/m
- EN 61000-4-11: Voltage dip immunity,
  30% reduction for 500ms, 60% reduction for 100ms, >95% reduction for 10ms
- Safety Standards: IEC/EN/UL 60601-1 (Edition 3.1)
- IEC/EN 60950-1 (2nd Edition)
- Agency Approvals: UL, cUL, TUV, PSE, CE, CB
- Other Compliance: REACH, RoHS, CEC/DoE Level VI, ErP Stage II

MODELS LIST

<table>
<thead>
<tr>
<th>Product No.</th>
<th>AC Inlet</th>
<th>Output Connector</th>
<th>Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>TDM65-19.5-6-DL</td>
<td>C6</td>
<td>7.4 x 5.1mm</td>
<td>I</td>
</tr>
<tr>
<td>TDM65-19.5-8-DL</td>
<td>C8</td>
<td>7.4 x 5.1mm</td>
<td>II</td>
</tr>
<tr>
<td>TDM65-19.5-6-DLS</td>
<td>C6</td>
<td>4.5 x 2.9mm</td>
<td>I</td>
</tr>
<tr>
<td>TDM65-19.5-8-DLS</td>
<td>C8</td>
<td>4.5 x 2.9mm</td>
<td>II</td>
</tr>
</tbody>
</table>
### MECHANICAL SPECIFICATIONS

**TDM65-19.5-6-DL, TDM65-19.5-8-DL**

**I EC 320/C8**

**TDM65-19.5-6-DLS, TDM65-19.5-8-DLS**

**I EC 320/C6**

Notes:
1. Unit: mm
2. Weight: 310 grams approx.