DT100/150-D Series
100-150W AC-DC External Power Supplies

Ranging from 100 to 150W, these DT100/150-D external power supplies are certified to UL/CSA/EN/IEC62368-1 and comply with DoE Level VI Efficiency. In addition to satisfying Energy Efficiency Level VI with an average efficiency of greater than 89% and an off-load power draw of less than 150mW, the products also meet EU Tier 2 requirements. All units meet EN55032-B, FCC Class B conducted & radiated emissions and EN55024 immunity standards.

Features
• EU CoC Tier 2 & DoE Level VI Compliant
• Wide Range AC Input (90-264VAC)
• >89% Average Efficiency
• Rugged Non-Vented Enclosure
• Alternative Connectors and Cable Assemblies

Benefits
• Meets US and EU Energy Saving Legislation
• Global Operation
• Consumes Less Energy
• Suitable for Harsh Industrial Environment
• Flexible System Integration

Model Selector

<table>
<thead>
<tr>
<th>Model</th>
<th>Output Voltage (V)</th>
<th>Maximum Current (A)</th>
<th>Maximum Power (W)</th>
<th>Overvoltage Protection (V)</th>
<th>Output Regulation (%)</th>
<th>Ripple &amp; Noise (mVpk-pk)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DT100PW120D</td>
<td>12</td>
<td>8.34</td>
<td>100</td>
<td>13.2 - 15.6</td>
<td>±5</td>
<td>240</td>
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<tr>
<td>DT100PW160D</td>
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<td>17.6 - 20.8</td>
<td>±5</td>
<td>320</td>
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<tr>
<td>DT100PW190D</td>
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<td>20.9 - 24.7</td>
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<tr>
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<td>100</td>
<td>26.4 - 31.2</td>
<td>±3</td>
<td>480</td>
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<tr>
<td>DT100PW360D</td>
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<td>2.78</td>
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<td>39.6 - 46.8</td>
<td>±3</td>
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<tr>
<td>DT100PW480D</td>
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<td>2.09</td>
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<td>52.8 - 62.4</td>
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<td>DT150PW120D</td>
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<td>150</td>
<td>26.4 - 31.2</td>
<td>±3</td>
<td>480</td>
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<tr>
<td>DT150PW360D</td>
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<td>4.17</td>
<td>150</td>
<td>39.6 - 46.8</td>
<td>±3</td>
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<td>150</td>
<td>52.8 - 62.4</td>
<td>±3</td>
<td>480</td>
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</table>

DT100/150-D Series

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<tr>
<th>DT</th>
<th>100PW</th>
<th>240</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>100W Output Power</td>
<td>120</td>
<td>12V Output Voltage</td>
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<tr>
<td>150</td>
<td>140/150W Output Power</td>
<td>160</td>
<td>16V Output Voltage</td>
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<tr>
<td>190</td>
<td>19V Output Voltage</td>
<td>240</td>
<td>24V Output Voltage</td>
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<tr>
<td>360</td>
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<td>480</td>
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## Specifications

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</table>

### Input
- **Input Voltage range** V<sub>ac</sub>: 90 - 264
- **Input Frequency** Hz: 47 - 63
- **Input Current (90Vac)** A: 2.5
- **Inrush Current at 230Vac (Cold Start)** A: <150 (25°C ambient)
- **Leakage Current (264Vac 60Hz)** uA: <600
- **Power Factor** %: Typically 0.9 at full load, 230VAC (Meets EN61000-3-2)
- **No Load Power Consumption** mW: <150
- **Hold Up Time (typ) at 115Vac Input** ms: 16
- **Efficiency** %: >89 Avg. Active Efficiency (1)
- **Conducted & Radiated EMI** - EN55032-B, FCC Part 15 Class B
- **Immunity** - EN55024
- **Safety Agency Certifications** - UL/CSA/EN/IEC62368-1, UL/CSA/ENIEC60950-1, CE Mark (LVD, EMC and RoHS)

### Output
- **Voltage Accuracy** %: ±1
- **Output Voltage Adjustment** - None
- **Switching Frequency (Full Load)** kHz: 45 - 55
- **Total Regulation** - See Model Selector Table
- **Ripple & Noise (2)** - See Model Selector Table
- **Temperature Coefficient** %/°C: ±0.05
- **Minimum Load** - No minimum load required
- **Overcurrent Protection** %: 110 - 160 (Auto-Recovery)
- **Overvoltage Protection** - See Model Selector Table (Cycle input power to reset)
- **Short Circuit Protection** - Continous - Hiccup Mode (Auto Recovery)
- **Parallel Operation** - Not possible

### Environmental
- **Operating Temperature** °C: -20 to +60, de-rate linearly to 50% load from 40 to 60
- **Storage Temperature** °C: -20 to +85
- **Humidity (non condensing)** %RH: 20 - 90
- **Cooling** - Convection
- **Altitude** m: 2,000
- **Withstand Voltage (For 1 minute)** V<sub>ac</sub>: Input to Ground 1,500, Input to Output 3,000, Output to Ground 500VDC (3)
- **IP Rating** - IPX0
- **Vibration (non-operating)** m/s<sup>2</sup>: 23.52 (10 - 55Hz: constant sweep 1 min X, Y, Z for 1 hour)
- **Shock** m/s<sup>2</sup>: <196.1 (20G)

### Other
- **Weight (Typ)** g: 780
- **Size (LxWxH)** mm: 170 x 85 x 44
- **Size (LxWxH)** Inches: 6.70 x 3.35 x 1.73
- **AC Input Connector** - IEC 320-C14 (Accepts IEC 320-C13)
- **DC Output Connector** - Kykon KPPx-4P or equivalent Pins 1 & 2: -Vout, Pins 3 & 4: +Vout
- **Cable Length & Thickness** - 1050mm; 12 to 16V Models: UL2464 #16 AWG, 19 to 48V Models: UL2464 #18 AWG
- **MTBF (MIL-HN81K, 100% load, 25°C)** hrs: 140,000
- **Warranty** yrs: 3

### Notes
- See website for detailed specifications, test methods and installation manual
- (1) Measured at 25%, 50%, 75% and 100% load conditions
- (2) Ripple and noise is measured at 20MHz BW. Add 0.1uF ceramic capacitor and 10uF Electrolytic capacitor in parallel across the output
- (3) Versions available for output to be internally connected to ground. Contact local sales office.
Outline Drawing

Note:
1. AC Inlet: IEC320-C14
2. Plastic Case Color: Black
3. Tolerance: ±0.5mm
4. Unit: mm