The DTM300-D Class I and Class II (no ground connection) 300W external power supplies are certified to IEC/ES/CSA/EN60601-1, IEC60601-1-11 (Class II), IEC/UL/CSA/EN62368-1 and are compliant to IEC60601-1-2 (Ed4). With an average efficiency of greater than 88% and an off-load power consumption of less than 0.5W, this series also complies with DoE Level VI standards for efficiency and off-load power. With options for Class I or Class II inputs, the DTM300-D series is suitable for a variety of power hungry medical, industrial, and test and measurement applications.

### Features
- **Wide Range AC Input (Class I or Class II Input Options)**
- **Meets DoE Level VI Efficiency**
- **60601-1 Medical Certifications /2xMoPP**
- **62368-1 ITE Certifications**
- **< 0.5W Off-load Power Draw**

### Benefits
- **Global Operation**
- **Meets US Energy Saving Legislation**
- **Suitable for B & BF Rated Equipment**
- **Suitable for Industrial Applications**
- **Consumes Less Energy**

### Model Selector

<table>
<thead>
<tr>
<th>Model</th>
<th>Output Voltage (V)</th>
<th>Max Current (A)</th>
<th>Max Power (W)</th>
<th>Overvoltage Protection (V)</th>
<th>Ripple &amp; Noise (mVpk-pk)</th>
</tr>
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<tbody>
<tr>
<td>DTM300PW120D1</td>
<td>12</td>
<td>25</td>
<td>300</td>
<td>12.9 - 16.0</td>
<td>240</td>
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<tr>
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<td>300</td>
<td>16.0 - 20.0</td>
<td>300</td>
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<td>15.79</td>
<td>300</td>
<td>20.20 - 25.46</td>
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<tr>
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<td>25.50 - 32.16</td>
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<tr>
<td>DTM300PW280D1</td>
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<td>10.71</td>
<td>300</td>
<td>29.6 - 33.2</td>
<td>300</td>
</tr>
<tr>
<td>DTM300PW480D1</td>
<td>48</td>
<td>6.25</td>
<td>300</td>
<td>50.0 - 57.2</td>
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</tr>
<tr>
<td>DTM300PW540D1</td>
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<td>5.56</td>
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<td>56.0 - 60.2</td>
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<tr>
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<td>12.9 - 16.0</td>
<td>240</td>
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<tr>
<td>DTM300PW150D2</td>
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<td>300</td>
<td>16.0 - 20.0</td>
<td>300</td>
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<td>DTM300PW190D2</td>
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<tr>
<td>DTM300PW240D2</td>
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<td>300</td>
</tr>
</tbody>
</table>

**Model D2**
- 120V Output Voltage
- 150V Output Voltage
- 190V Output Voltage
- 240V Output Voltage
- 480V Output Voltage

**Model D1**
- Class I Input (IEC320-C14)
- Class II Input (IEC320-C18)
### Specification

<table>
<thead>
<tr>
<th>Model</th>
<th>DTM300-D</th>
</tr>
</thead>
</table>

#### Input

- **Input Voltage range**: 90 - 264 Vac
- **Input Frequency**: 47 - 63 Hz
- **Input Current (115/230Vac)**: 3.0 / 1.5 A
- **Inrush Current at 230Vac (Cold Start)**: <70 (25°C ambient) A
- **Touch Current**: <100 uA
- **No Load Power Consumption**: <500 mW
- **Hold Up Time (typ) at 115Vac Input**: 10 ms
- **Average Efficiency (1)**: >88 %
- **Conducted & Radiated EMI**: EN55032-B, EN55011-B, FCC Part 15 Class B, FCC Part 18 Class B
- **Immunity**: IEC60601-1-2 Ed4:2014
- **Safety Agency Certifications**: IEC/ES/UL/CSA/EN60601-1, IEC/UL/CSA/EN62368-1, 60950-1, IEC60601-1-11 (Class II Models), CE Mark (LVD, EMC and RoHS)

#### Output

- **Voltage Accuracy**: Included in Total Regulation Specification
- **Output Voltage Adjustment**: None
- **Switching Frequency (Full Load)**: 83 - 96 kHz
- **Total Regulation**: ±5 %
- **Ripple & Noise (2)**: See Model Selector Table
- **Temperature Coefficient**: ±0.05 %/°C
- **Minimum Load**: No minimum load required
- **Overcurrent Protection**: 105 - 150 (Auto-Recovery)
- **Overvoltage Protection**: See Model Selector Table (Auto-Recovery)
- **Short Circuit Protection**: Continuous - Hiccup Mode (Auto-Recovery)
- **Indicators**: LED indicates DC output is on
- **Parallel Operation**: Not possible

#### Environmental

- **Operating Temperature (3)**: -30 to 60 derate linearly to 50% load from 40 to 60 °C
- **Storage Temperature**: -30 to 85 °C
- **Humidity (non condensing)**: 0 - 95 %RH
- **Cooling**: Convection
- **Altitude**: 5,000 m
- **Withstand Voltage (For 1 minute)**: Class I: Input to Output 4,000 (2xMoPP), Input and Output to Ground 1,500 (1xMoPP), Class II: Input to Output 4,000 (2xMoPP)
- **Isolation Resistance**: 20 MΩ
- **IP Rating**: IP42

#### Other

- **Weight (Typ)**: 1,570 g
- **Size (LxWxH)**: 222 x 112 x 45 mm
- **Size (LxWxH)**: 8.75 x 4.40 x 1.77 inches
- **AC Input Connector**: Class I: IEC 320-C14 (3 prong); Class II: IEC320-C18 (2 prong)
- **DC Output Connector**: 10 Pin Mini Fit P4.20 (See Outline Drawing)
- **Output Mating Connector**: Molex Mini Fit 39-28-1103 or equivalent
- **Cable Length & Thickness**: 800mm; UL 2464 #16 AWG
- **MTBF**: 200,000 hrs
- **Warranty**: 3 yrs

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**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 47uF Electrolytic capacitor in parallel across the output
3. Derate linearly to 70% load from 0 to -30°C
Note:
1. AC Inlet: IEC320-C14 or IEC320-C18
2. Plastic Case Color: Black
3. Tolerance: ±1mm
4. Unit: mm

Dimension: L225(8.84") x W112(4.41") x H45(1.77)mm
NOTE: TOLERANCE: ±1mm(±0.04") UNDER"