### Transformer Parameters

<table>
<thead>
<tr>
<th>Core</th>
<th>Power</th>
<th>Weight</th>
<th>Dielectric Isolation</th>
<th>Voltage</th>
<th>Current</th>
</tr>
</thead>
<tbody>
<tr>
<td>ER41</td>
<td>2kW</td>
<td>100G</td>
<td>2.5kV</td>
<td>600V</td>
<td>75A</td>
</tr>
</tbody>
</table>

### Topologies
- Full Bridge
- Half Bridge
- Boost
- Resonant
- Push Pull
- Buck
- Flyback

### Inductor Application
- SIZE 225

### Transformer Technical Information

- Isolation Voltage: 4kVrms
- Primary - Secondary: 2.5kVrms
- Secondary - Core: 2.5kVrms
- Switching Frequencies: 20kHz - 3MHz

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### Transformer Specification Example

- Total Output Power: 2kW
- Topology: Full Bridge 2VT
- PSU Output DC Voltage and Current: 255Vdc @ 8Adc, 420Vdc @ 4.75Adc
- Primary Inductance: 1.0mH ± 25%
- Primary Winding Current: 7.7A rms (max)
- Secondary Winding Current: 5.5A rms (max)
- Switching Frequency: 250kHz
- Max Duty Cycle: 0.41
- Minimum Bus Voltage: 375V
- Maximum Bus Voltage: 480V
- Turns Ratio: 10:14
- Total Transformer Losses: 14W (max)
- Cooling: Liquid Cooled Baseplate
- Ambient Temperature: -40°C to +105°C
- Insulation Test Voltage: 2700Vdc
- Primary to Secondary: 2700Vdc
- Primary to Core: 2700Vdc
- Secondary to Core: 2700Vdc
- Standard: EN60950

### Dimension Diagram