**Transformer Parameters**

- Core: ER64
- Power: 10 kW
- Weight: 400G
- Dielectric Isolation: 4 kV
- Voltage: 1000 V
- Current: 300 A

**Topologies**

- Full Bridge
- Half Bridge
- Boost
- Resonant
- Push Pull
- Buck

**Transformer Specification Example**

- Total Output Power: 6 kW
- Topology: Phase Shift Full Bridge
- PSU Output DC Voltage & Current: 200 V @ 30 A dc
- Primary Inductance: 17.5 µH ± 25% (provisional)
- Primary Winding Current: 344 A rms
- Secondary Winding Current: 29 A rms
- Switching Frequency: 3 kV Hz
- Minimum Bus Voltage: 18 V
- Maximum Bus Voltage: 32 V
- Turns Ratio: Primary to Secondary: 1:12
- Cooling: Heatsink at 70°C
- Ambient Temperature
- Insulation Test Voltage: Primary to Secondary: 4000 Vrms
- Primary to Core: 2500 Vrms
- Secondary to Core: 2500 Vrms
- Standard: EN60950

**Inductor Technical Information**

- Isolation Voltage:
  - Primary - Secondary: 4 kVrms
  - Primary - Core: 2.5 kVrms
  - Secondary - Core: 2.5 kVrms
- Switching Frequencies: 20 kHz - 3 MHz
- Magnetics: 1x10 A (± 15%)
- Ampere Turns: 1x10 A

**Inductor Application**

- SIZE 510

**Transformer & Inductors**

- 10kW Max Power
- SIZE 510