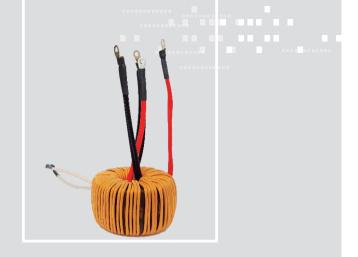
New

3DP-7kWHVHV-001

Full Bridge LLC Transformer + Resonant Choke

INDUCTIVE COMPONENTS / 3D POWER





ABSTRACT

Premo 3DPower is a revolutionary concept in power magnetics integration. Existing magnetics within conventional HEV On-Board Chargers and DCDC converters are merged into one single and compact product. Maximum power density is achieved by reducing the size and increasing the power dissipation with the latest high thermal conductive materials.

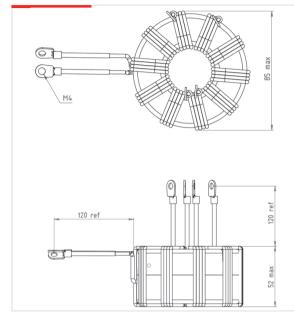
Designs can be fully customized to meet any customer requirement.

ELECTRICAL SPECIFICATIONS

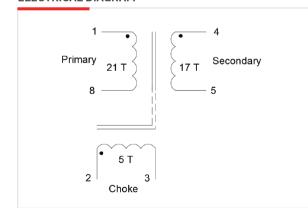
| TOPOLOGY | Full Bridge LLC Resonant Converter Transformer + Resonant Choke |
|-----------------------|-----------------------------------------------------------------|
| INPUT | |
| Primary Voltage | 280 Vdc to 460 Vdc |
| OUTPUT | |
| Secondary | 280 Vdc to 450 Vdc/ 24 Arms max |
| CURRENT RES. INDUCTOR | 24 Arms (36Apk) |
| SWITCHING FREQUENCY | 80 kHz to 300 kHz |
| DUTY CYCLE | 50% |
| TOTAL OUTPUT POWER | 7 kW |
| COUPLING | |
| N choke/N prim | 0.057 |
| N choke/N any sec | 0.046 |

02 SPECIFICATIONS

DIMENSIONS



ELECTRICAL DIAGRAM



TYPICAL PERFORMANCE

