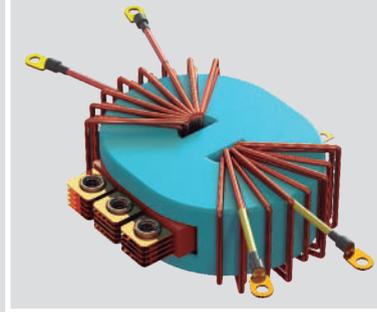


New

3DP-3kWHVLV-001

Full Bridge LLC Transformer + Resonant Choke + Parallel Inductor

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.

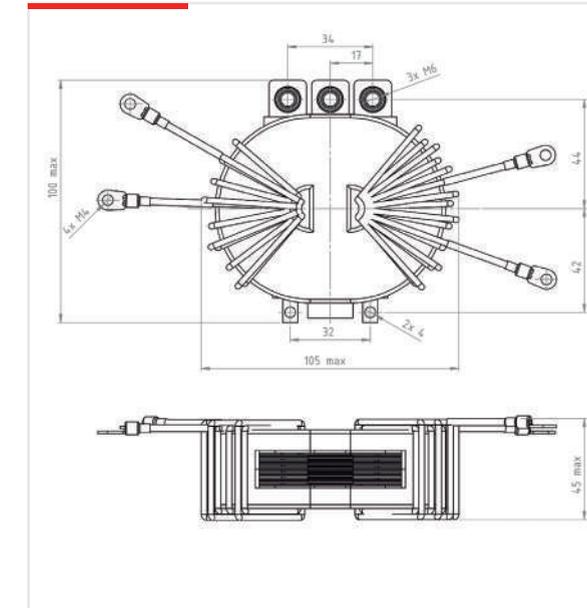
Designs can be fully customized to meet any customer requirement.

ELECTRICAL SPECIFICATIONS

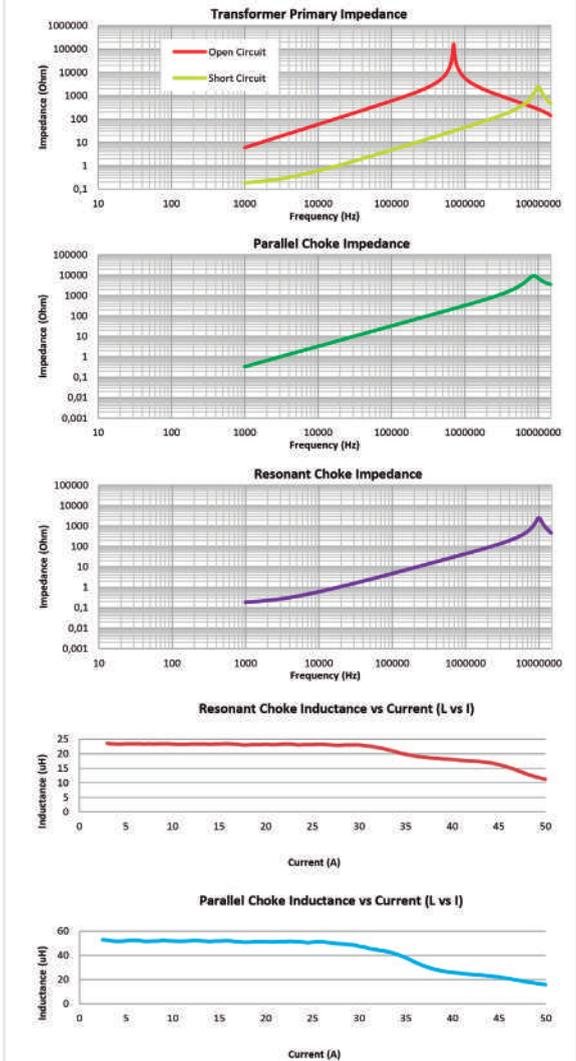
TOPOLOGY	Full Bridge LLC Resonant Converter Transformer + Resonant Choke+ Parallel Inductor
INPUT	
Primary Voltage	370 Vdc to 470 Vdc
OUTPUT	
Secondary	10 to 16 Vdc/ 270 Arms
CURRENT RES. INDUCTOR	40 Arms (60 Apk)
CURRENT PAR. INDUCTOR	25 Arms (50 Apk)
SWITCHING FREQUENCY	85 kHz to 135 kHz
DUTY CYCLE	50%
TOTAL OUTPUT POWER	4 kW
COUPLING	
N choke/N prim	0.0054
N choke/N prim	0.0033
N choke/N any sec	0.00045

02 SPECIFICATIONS

DIMENSIONS



TYPICAL PERFORMANCE



ELECTRICAL DIAGRAM

