

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
580 Vdc to 750 Vdc

OUTPUT
Secondary
220 Vdc to 500 Vdc / 36 Arms

CURRENT RES. INDUCTOR
30 Apk

SWITCHING FREQUENCY
70 kHz to 400 kHz

DUTY CYCLE
50%

TOTAL OUTPUT POWER
11 kW

COUPLING
N choke/N prim
0.0015
N choke/N any sec
0.0021

DIMENSIONS

TYPICAL PERFORMANCE