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 (36Apa)

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

DIMENSIONS

TYPICAL PERFORMANCE