Power Conversion for eMobility
**DNC Series DC/DC Converter**

The Bel Power Solutions 350/700DNC40 Series is a 4 kW DC/DC converter that converts HVDC voltages in hybrid and electric vehicles to LVDC voltages suitable to power low voltage (12/24 Vdc) accessories.

**Features & Benefits**
- Input Voltage Range 240-430 Vdc / 400-850 Vdc
- 92 % Typical Efficiency
- Up to 6 kW Power (max. 36 kW)
- Full Galvanic Isolation between Input and Output
- CAN Bus Serial Interface
- Liquid or Convection Cooling
- Adaptable to Various HVIL Input Connectors
- Flexible Output Connectivity
- Wide Ambient Operational Temperature Range
- IP65 and IP67
- E-mark compliant

**INV Series DC/AC Inverter**

The Bel Power Solutions 350/700INV60 Series are highly efficient DC/AC inverters that convert high voltage DC power into split phase AC power required to drive AC accessory loads directly from the high voltage DC drives or battery bus.

**Features & Benefits**
- Input Voltage Range 240-430 Vdc / 400-850 Vdc
- 93% Typical Efficiency
- Up to 4 kW Power (max. 16 kW)
- Full Galvanic Isolation between Input and Output
- CAN Bus Serial Interface
- Liquid or Convection Cooling
- Adaptable to Various HVIL Input Connectors
- Flexible Output Connectivity
- Wide Ambient Operational Temperature Range
- IP65 and IP67
- E-mark compliant
INVCH Series
Bi-Directional Inverter Charger

The Bel Power Solutions 350INVCH150 Series is a 15 kW inverter charger that converts AC to DC voltages in charge mode and converts DC voltages to pure sine wave AC to power accessories.

INVCH Series
Bi-Directional Inverter Charger

The Bel Power Solutions 350INVCH150 Series is a 15 kW inverter charger that converts AC to DC voltages in charge mode and converts DC voltages to pure sine wave AC to power accessories.

Features & Benefits
- Input Voltage Range 90 – 264 Vac / 47 – 63 Hz
- 90% Typical Efficiency
- Charge Mode Output 250-435 Vdc
- Export Power Mode Output 120/240 Vac (50/60 Hz)
- Possible overload up to 200% of nominal output power during 10 sec in Export mode, suitable to start-up electric motor loads
- Liquid Cooled only
- CAN Bus Serial Interface
- Wide Ambient Operational Temperature Range
- IP65 and IP67
- Available Grid-Tie model certified according UL1741

Custom Solutions

Bel Power Solutions designs and manufactures a wide range of standard products, but is ready to meet customer’s unique requirements and demands providing modified standard, value-add, or even full custom solutions.

Modified solutions can include modified or full custom performance, change in packaging, etc.

Examples of Custom Solutions
- Bi-Directional DC/DC Converters
  - Input Voltage Range 660 – 770 Vdc
  - Efficiency > 96% at Vin = 700 Vdc and Iout nominal
  - Up to 22.5 kW (max. 90 kW)
  - Convection or Liquid Cooling Available
- Motor Controllers for Bow Thrusters
- On-Board Battery Chargers for Hybrid-Electric Vehicles (single or three phase solutions available)
- Inverters for Marine Applications
About Bel Power Solutions

As one of the world’s largest providers of power conversion and power management solutions, Bel Power Solutions is one of only a few companies with the product breadth to support every step in the refinement of utility-grade AC into the various DC voltages required to power high availability infrastructure systems at the site, system, and semiconductor levels.

For more information, please contact us:

North America
+1 408 785 5200

Asia-Pacific
+86 755 29885888

Europe, Middle East
+353 61 225 977
belpowersolutions.com