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EMC FILTERS AND INDUCTIVE COMPONENTS FOR HYBRID AND ELECTRIC VEHICLES

 **PREMO**
Inductive Components

 **PREMO**
RFID Components

 **PREMO**
EMC Filters


PREMO
HIGH QUALITY
Inductive Components

EMC FILTERS AND INDUCTIVE COMPONENTS FOR HYBRID AND ELECTRIC VEHICLES

PREMO develops innovative **EMC filters for Battery Chargers in Plug-in Hybrid and Electric Vehicles** in order to fulfill the standard EN61851-21, and to assure vehicle is free of interference.

PREMO also provides **inductive components** solutions from 2.2 kW up to 20kW including PFC chokes, main transformers, output chokes, gate drive transformers and high frequency current transformers.

EMC FILTERS For Battery Chargers

- Low and controlled leakage current during charging the vehicle
- Suppress interference problems from battery chargers with high power ratings
- Helps to fulfill the standard EN61851-21 and UL-2202
- Power rating from 3.3 kW to 43 kW (16 – 63 Amps)
- Single phase / three phase / dc mode
- Standard, fast or ultra fast charge
- Differential current sensing module under requested



HF CURRENT SENSOR CSAU Series Battery charger and DC/DC converters

- Industry Smallest 35 Amp automotive current sensor
- Max height 8.5mm
- Less than 2.7 cm² PCB usage
- 3kV isolation and a creepage distance > 5.0mm
- Frequency range up to 300kHz



DC and AC CURRENT SENSOR – DCT-200A Battery Management and Monitoring System (BMS)

- Current transducer to measure and control current flowing from/to the battery
- Low Consumption (< 50mA)
- Excellent Linearity and very high accuracy for measuring DC and AC currents
- High immunity to external electrostatic and magnetic field interference
- High temperature stability from -40 to 105°C



POWER FACTOR CORRECTION CHOKES PFC Series For Battery Chargers

- Low profile and no aging component
- High efficiency up to 99%
- Power rating: 3,3-10-20kW
- L=500uH up to 65Apk
- Frequency range: 50-100kHz
- Thermal cooling interface



MAIN HF TRANSFORMERS HPT Series Battery Charger and DC/DC Converters

- High efficiency in a low profile planar format (< 30mm)
- Vacuum encapsulation technology to assure high isolation levels (> 5kV)
- Power rating up to 16kW
- High efficiency (typical 99%)
- Frequency range up to 200 kHz



HF OUTPUT CHOKES HPC Series Battery Charger and DC/DC Converters

- Output choke low profile (<30mm)
- Up to 200Amps
- Helical flat wire winding assure low losses components
- Frequency range up to 200kHz

