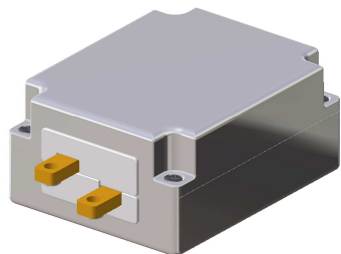


Compact High Power EMC/EMI DC Filter for e-Mobility



- Protect HV battery against EMI emission
- High attenuation for Common and Differential Mode between 150 kHz up to 300 MHz
- Needed to protect sensitive battery electronics system
- Needed to meet Automotive EMC regulations
- Customization is available under request



Performance indicators

Attenuation performance



Power electronics converters and HV battery are the key components for e-mobility development. High integrated power electronics converters generate EMI noise while HV batteries are very susceptible to it. Battguard is a compact and cost effective solution to reduce EMI noise and meet the stringent automotive standards.

Features and benefits

The Battguard BG150 standard EMC/EMI filter is based on Schaffner's years of experience in custom filter design for the automotive industry. Installed inside HV battery, Battguard DC filters significantly reduce conducted emissions and protect the battery.

Typical applications

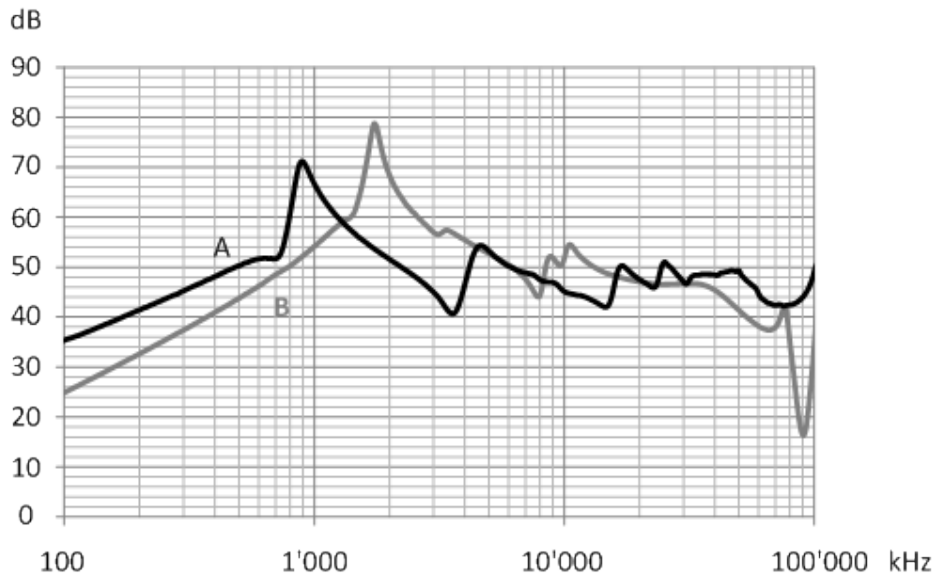
The Battguard is primarily designed for HV batteries. However, they can also be used in other DC applications. Filters with different range of current and performance are available upon request.

Technical specifications

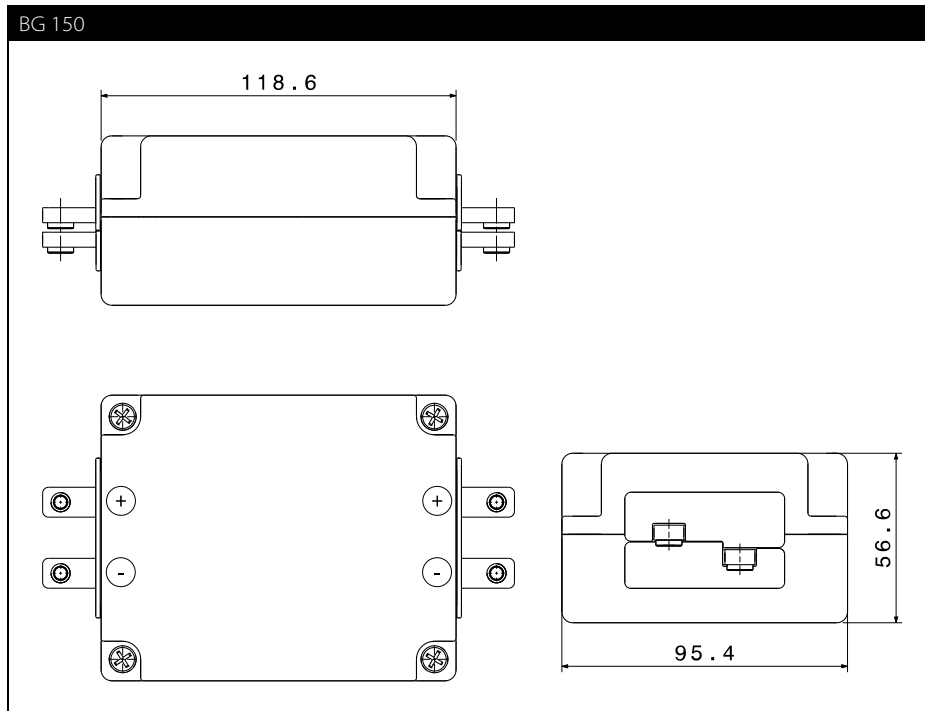
Maximum continuous operating voltage	600 VDC
Operating frequency	DC
Rated currents	150 A
Temperature range	-40°C to +85°C
Terminals/Housing	Ni plated Cu bars/Aluminum
Weight	750 g

Typical filter attenuation

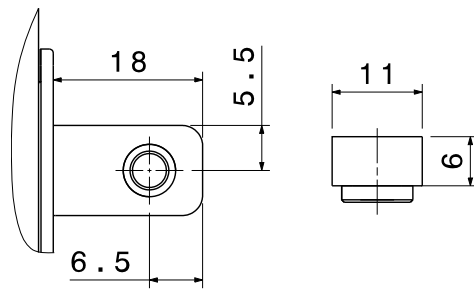
Per CISPR 17; A=50 Ω/50 Ω Differential Mode (sym); B=50 Ω/50 Ω Common Mode (asym.)



Mechanical data



Busbar connections



Mechanical fixation point to battery system available on requests



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