

BDC668

BDC668: 600A, 800V

Technical specifications
preliminary

Voltage range for full performance highside	450-850 V
Voltage range for full performance lowside	0-520 V
Maximum current lowside	600 A
Voltage range control circuit	9-36 V
Continuous power	250 kW
Efficiency	>99%
IP protection	IP6K6, IP6K9K
Control	CAN
Cooling system	Water cooling
Weight (without cooling water)	29 kg

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The DC/DC converter BDC668 is isolated to provide a controlled interface for fuel cell applications and is predominantly for use in the automotive industry. It connects energy systems with different HV supply levels. The DC/DC converter BDC668 is able to raise the supply level of an input fuel cell voltage to that of an 800 V drive

system. It meets the current standards for electrically powered vehicles and functional safety. Moreover, the utilization of zero voltage switching technology guarantees high efficiency, which significantly simplifies the thermal management of the system.

features

The DC/DC converter BDC668 fulfils the following functions:

- Zero voltage switching for unmatched efficiency (up to 99%)
- Nominal low side current 600A
- Low current ripple, optimal for fuel cell applications
- Wide input voltage range allows active discharge of the fuel cell
- Design based on EV standards

The DC/DC converter BDC668 is designed for operation and energy transfers within a wide range and meets the latest automotive standards. It also offers bidirectionality but with an enhanced power envelope up to a continuous current of 600A. With its very efficient zero voltage switching technology it offers a high efficiency up to 99%. Build upon the basis of automotive standards it is available fully certified to enter the market.

BDC6 AS PERFORMANCE BOOSTER

Added value for battery electric vehicles

Designed to unlock the full potential of the powertrain, the BRUSA performance booster offers an unparalleled blend of efficiency and power, setting a new standard in electric mobility.

Key Benefits:

- **Maximize powertrain potential:** Exploit the full capabilities of your vehicle's powertrain for a smoother, more responsive drive.
- **Supercharged charging capabilities:** Enjoy faster charging with increased power and reduced charging times.
- **Dual-function efficiency:** Benefit from a two-in-one solution that integrates seamlessly, providing a cost-effective enhancement to your vehicle.
- **Innovative design:** Developed based on a cost-efficient series product.

Charging performance: Faster, better, more efficient

- Full advantage of DC charging infrastructure
- Reduce power limitation
- Increase charging performance

Driving performance: A revolutionary experience

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- Full advantage of drivetrain components
- Reduce field weakening area
- Increase driving performance

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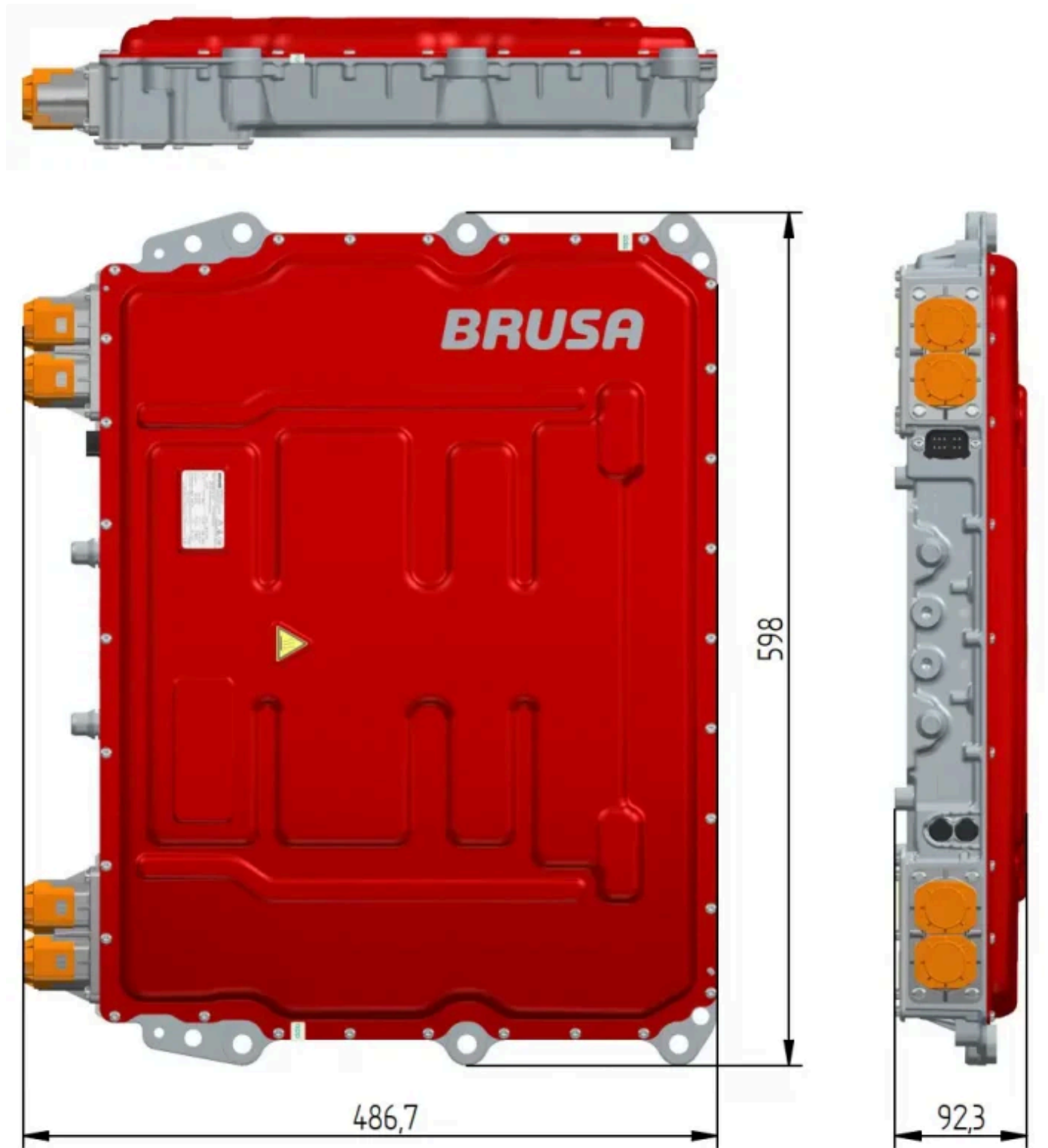
Drive into the future with the BRUSA performance booster

It's not just an upgrade; it's a leap into the future of driving. With the BRUSA performance booster, you're choosing a path of continuous innovation, superior performance, and the promise of a greener, more thrilling driving experience.



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Exploiting the potential of the power train



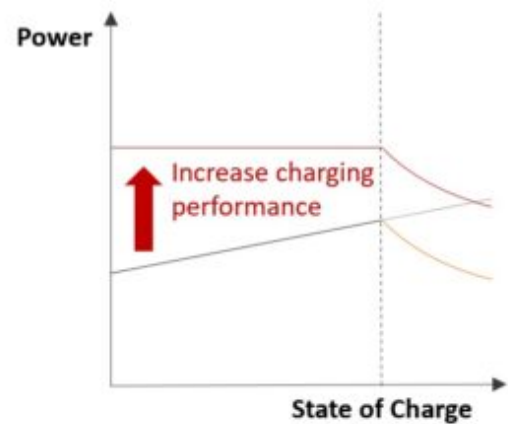
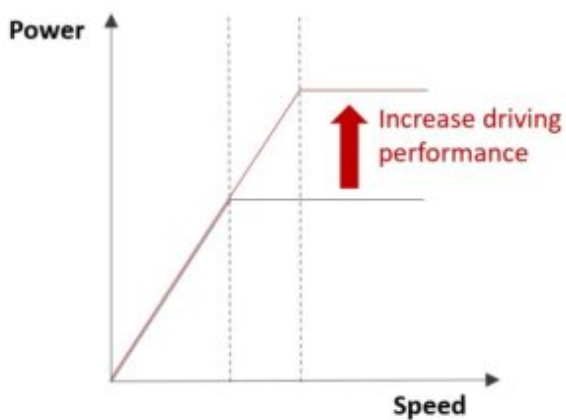
Efficient solution with two integrated functions



Increased charging power and reduced charging time



Development based on cost-efficient series product



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