



6.6kW bidirectional battery charger for electric vehicle

Preliminary data

Designed for the electrified transportation market, our innovative bidirectional charger efficiently charges the battery from the electrical grid or other source of renewable energy. In addition, it returns stored energy to the grid or residence as per the directives of the smart grid. Our product enables V2G and V2H concepts. It offers optimal battery charging and discharging performance to ensure its maximum durability.

- Patent pending technology
- Ultra compact form factor
- High power density (approx. 15W/in³)
- Dual CAN Bus for BMS communication and paralleled units
- Level 2 charger
- DC output fully isolated from AC mains
- Constant current, constant power and constant voltage modes of operation
- Bidirectional energy flow
- Multi module capability to maximize performance
- Liquid cooled
- SAE J1772 interface
- IP67 rated



AC Characteristics

AC Voltage	85-265VAC
AC Frequency	47-63Hz
AC Current	32A
Protection	40A fuse on both lines
Efficiency	>91%

Packaging

Weight	10kg
Dimensions	337 x 305 x 81 mm
Rating	IP67

Compliance

EMI Compliance	Designed to meet FCC class B
Safety Compliance	Designed to meet UL2202,
Other Compliance	Designed to meet SAE J1772

DC Characteristics

DC Voltage	200-400VDC
DC Power	6.6kW (charging/discharging)
Ripple	<2%

Cooling

Flow rate	6L/min
Inlet temperature	-40C to +65C
Cooling fluid	50% water / 50% glycol

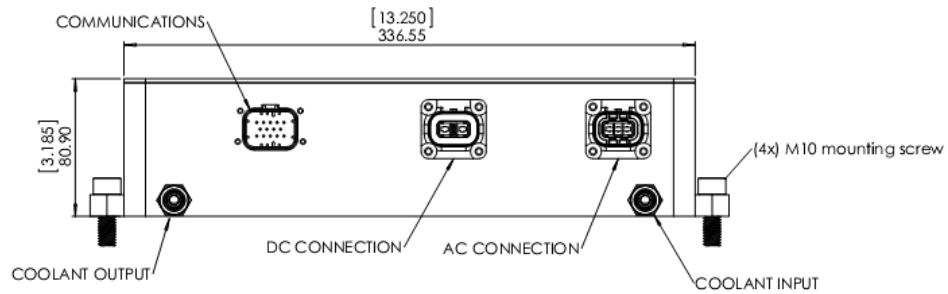
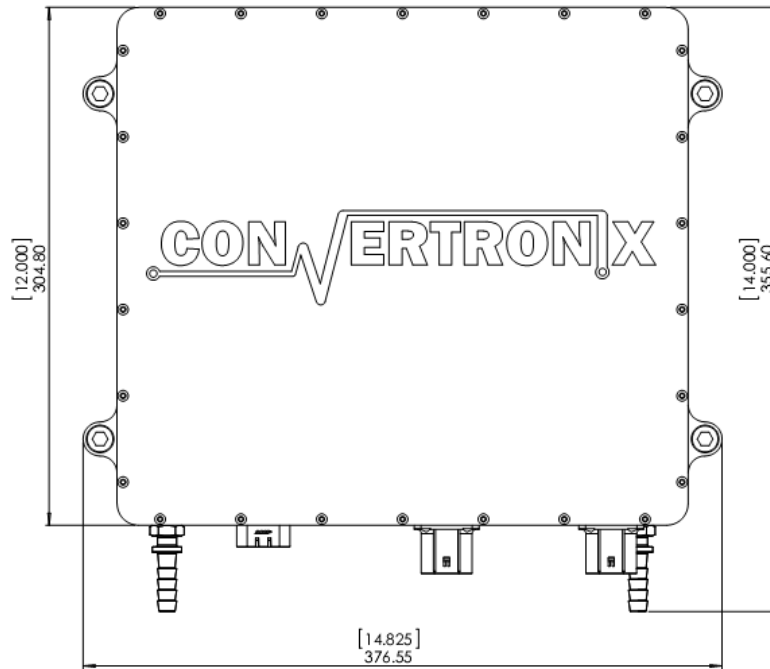
External Connections

HV AC port	Tyco HVA 280 3P (1587727-1)
HV DC port	Tyco HVA 280 2P (1587831-1)
Communication port	Tyco Ampseal 14P (776261-1)

Convertronix reserves the right to change limits, tests conditions and dimensions.

Mechanical Specifications

(Measurements in mm [in])



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