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All about e-mobility

Load Dump Box LDB

Disconnecting consumers from E-vehicle battery under load



Main features

- Wear-free, controlled opening of the DC connection between the vehicle battery and consumer under load
- Opening time: <100 μ s
- Rated load current: ± 1100 A
- Rated voltage of HV DC source: up to 1100 V
- Standards: ISO21498, MBN11123

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Technical data:

Operating voltage:	max. 1100 V
Rated current:	max. ± 1100 A
Breaker circuit:	Combined (breaker/transistor) stress-less switch, installed in positive/negative DC buses with capacitive voltage surges protection; the negative bus switch is a configurable option
Breaking time:	< 100 µs
Communication interfaces:	CAN 2.0 Bus, Ethernet, USB
CAN Bus data:	Control signals – enabling, operating mode, faults reset Measured values: status, active warnings, active faults, measured internal temperatures, output current, surges protection circuitry status (actual voltage or charge)
User Interface:	Parameters adjusting and control via PC-Software with data logging capability
State indicators:	LED lights on top of the cabinet
Cable options:	35 mm², 50 mm², 70 mm² und 90 mm²
Operating DC bus inductance:	max. 8 µH in total
Ext. power supply:	9 to 32 VDC / max. 100 W
Operating environment:	temperature 10 °C – 40 °C, non-condensing relative humidity
Protection class:	1 (DIN EN61140)
Ingress Protection Rating:	IP64

Dimension and weight:

Dimension:	Control cabinet Rittal AX 1057.00 (W 500 mm, H 700 mm, D 250 mm), on castors, Plexiglas cover inside, behind sheet steel door, dust and water splash protection to DIN EN 60529 Protection class IP64
Weight:	approx. 110 kg

Simplified schematic:

