

# powerMELA Brake Chopper

System safety

## KEY FEATURES

- Developed specifically for electrical braking, DC-Network safety and protection against overvoltage in mobile working machines
- The compact design is attainable with transformer oil cooling
- To reach a high safety the brake chopper offers protective insulation
- The chopper unit is designed for continuously adjusting the braking power and the desired values can be specified over CAN bus

## TECHNICAL DATA

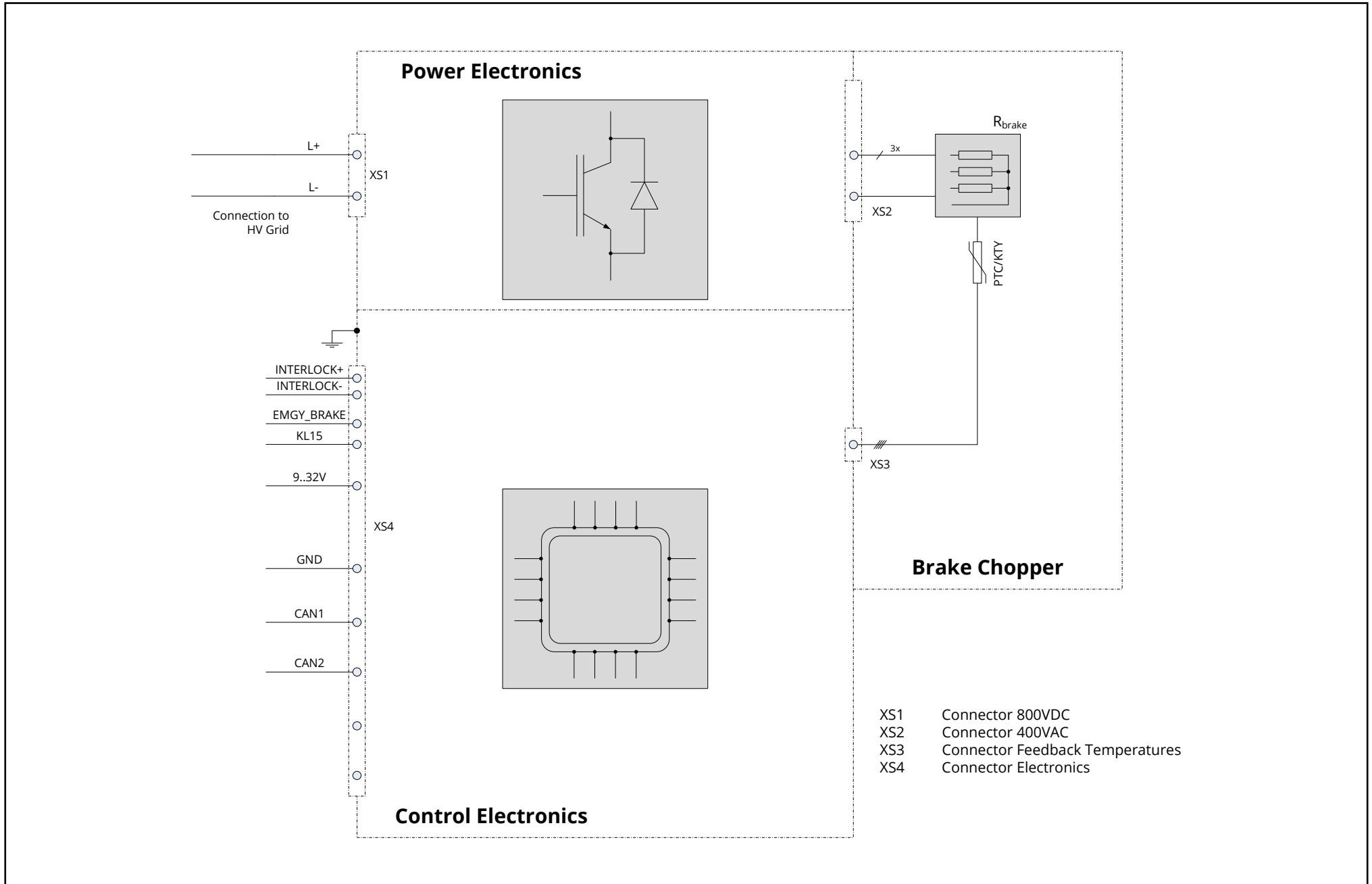
- Up to 800 VDC nominal voltage
- 500 kW max. power
- Optional insulation monitoring
- Optional control via 2 x CAN bus
- Weight 53 kg

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# BLOCK DIAGRAM



## TECHNICAL DATA

### Operation Data

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Size (resistor)	3 x 2R2 Ω	
Rated voltage DC (passive range)	up to 695 V	
Operating voltage range DC (active range)	up to 800 V	
Rated capacity	50 kW	Up to 650VDC (continuous braking)
Maximum power	500 kW	Short time to 2 seconds (emergency braking)
Earthing System	IT	(not connected to the grid)
Maximum impulse withstand voltage	4000 V	
Insulation monitoring	optional	
Control type	Brakes, overvoltage protection, intermediate circuit discharge	
Temperature range	-40 °C ... +85 °C -40 °F ... +185 °F	
LV Power supply DC	9 ... 32 V	

### Mechanical Data

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Protection class	IP6K9K	Communication Connector IP67
Maximum coolant temperature	60 °C / 140 °F	Transformer oil 50 l/min
Cooling line connection	2 x M26x1,5	
Connection DC line	2 x 70 mm <sup>2</sup>	with 8 mm cable lug
Connection Communication	19 pins, 2 x CAN; I/O	
Control connection	2 x CAN	
Maximum operating height	5000 m.a.s.l.	
Weight	53 kg	
Dimensions L x W x H (L x W x H)	507 x 363 x 324 mm (19.96 x 14.29 x 12.76 inch)	

# TECHNICAL DRAWING

