

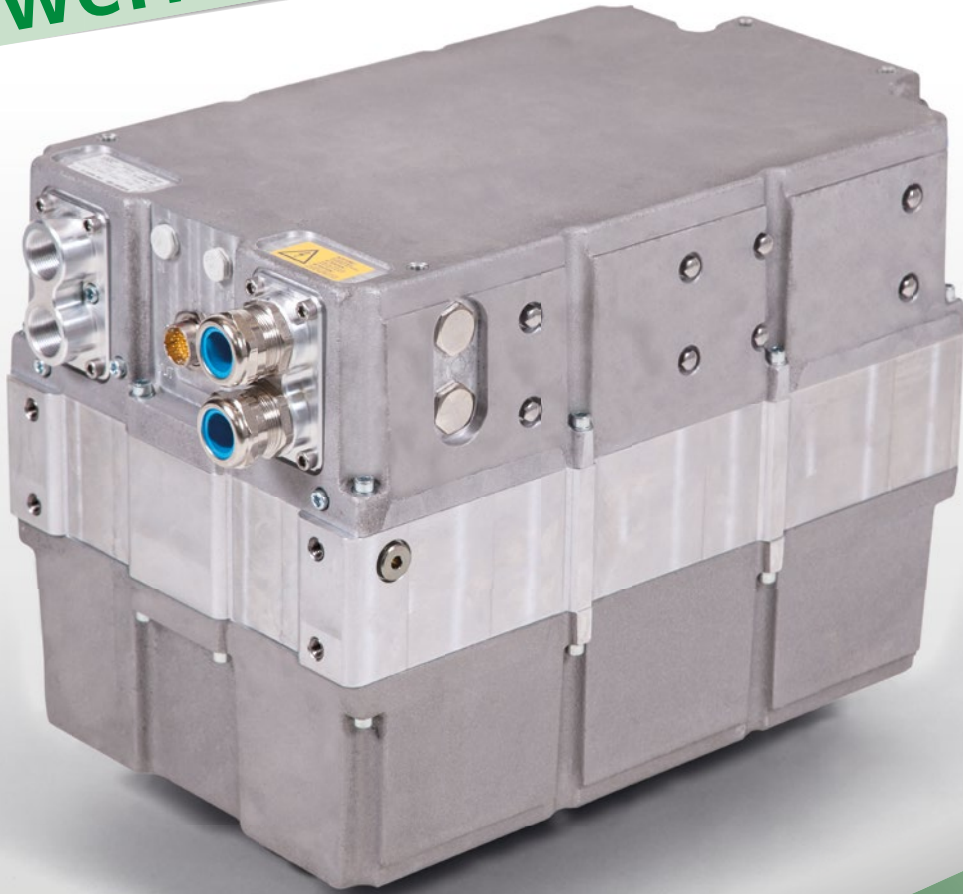


Sensor-Technik Wiedemann GmbH  
Mobile Controllers and Measurement Technologies

Pioneering new technologies



# Technical data powerMELA-BC 50/500kW Brake Chopper

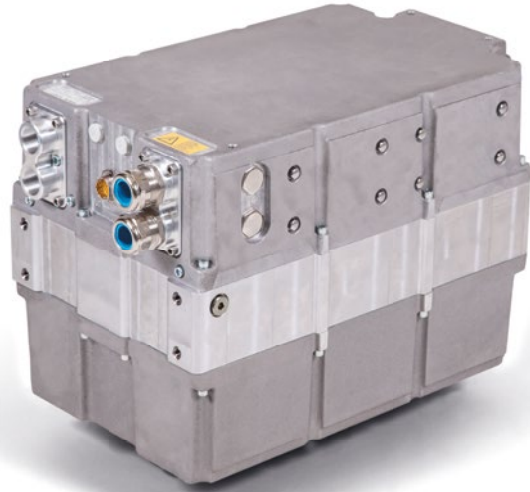


[www.sensor-technik.com](http://www.sensor-technik.com)



## 50/500 kW - Brake Chopper powerMELA - BC

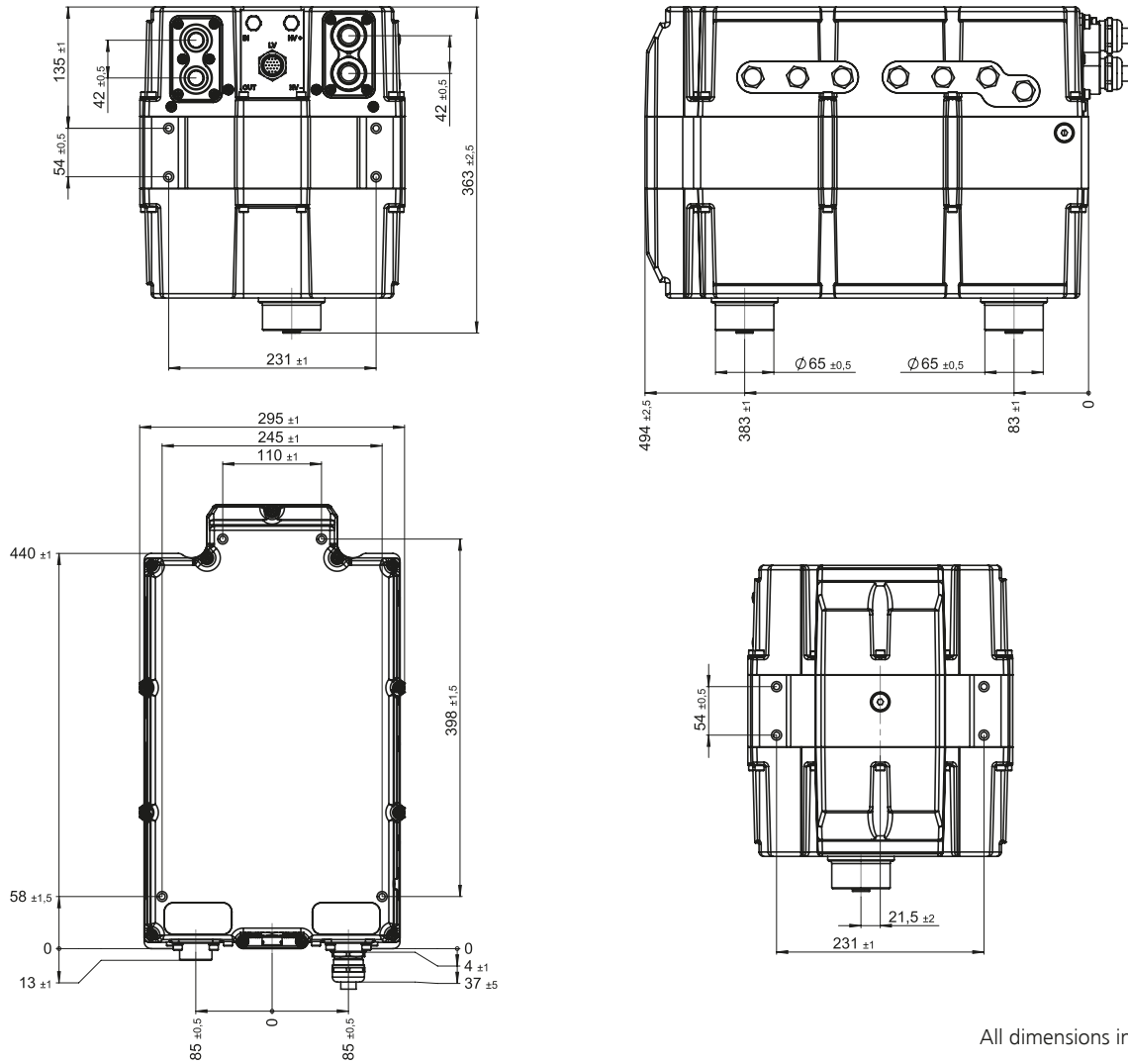
The powerMELA brake chopper series is a family of high-performance resistor elements with integrated chopper unit. They were developed specifically for electrical braking in mobile machines, DC-Network safety and protection against overvoltage. The brake choppers offer protective insulation for safety and are liquid cooled. The chopper unit is designed to continuously adjust the braking power and the desired values can be specified over CAN bus.



### Technical Data

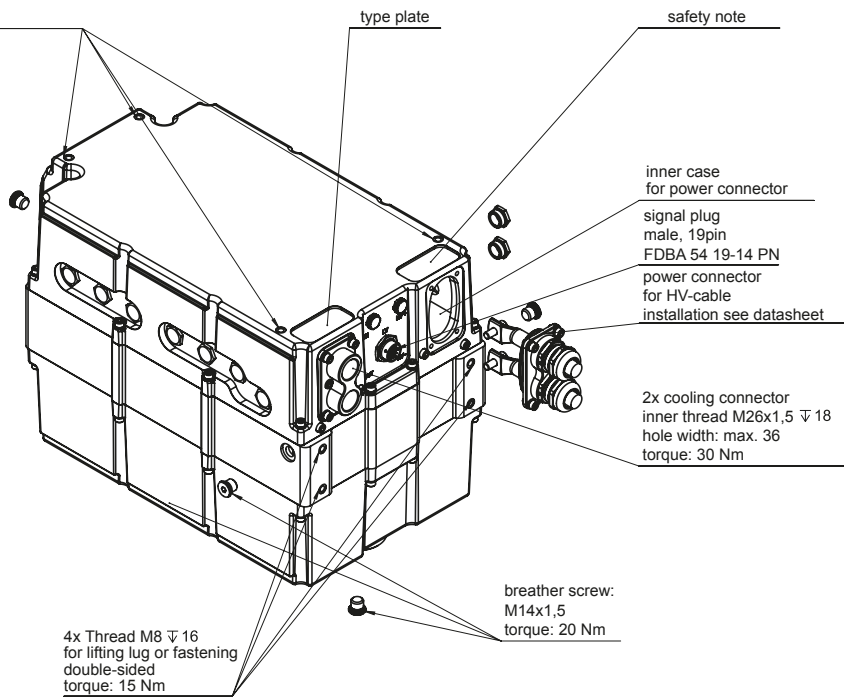
Size (resistor)		3x2R2
Nominal Power	[kW]	50 @ 600 Vdc continuous
Traction Net Voltage	[VDC]	Up to 800 VDC
Safety Insulation		Safety Class II
Phases		1 x 3
Resistor Characteristic		0,7 Ohm @ 100% PWM
PWM Characteristic	[%]	1 - 99
Power Overload	[%]	1000 for 2sec
Efficiency	[%]	100
Construction		Frame mount
Dimensions (LxWxH)	[mm]	507 x 363 x 324
Weight	[kg]	53
Ingress Protection		IP 6k9k
Temperature Range	[°C]	-40... +85
Cooling	[°C]	Transformer Oil Up To +60
Power Connector		Specific Connector Plate, Screw Mounting
Communication Connector		Bayonet Connector, 19-Pin, 2x CAN, E/A
Cooling Connector		2x Internal Screw Thread M26x1.5
max allowed pressure of cooling circuit	[bar]	2
nominal Volume flow rate	[dm³/min]	50
max allowed volume flow rate	[dm³/min]	80
max allowed oil temperature	[°C]	90
max Pressure drop	[bar]	< 1,5
Warming of coolant	K	40

# Dimensions



All dimensions in mm.

4x Thread M8 ∇ 16  
for lifting lug or fastening  
double-sided  
torque: 15 Nm



Other products from the powerMELA® series:



powerMELA®-WR C (Inverter)

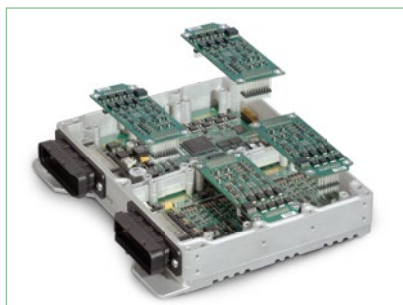


powerMELA®-Battery Management System



powerMELA®-C

STW also offers products in the following range



Control Technology



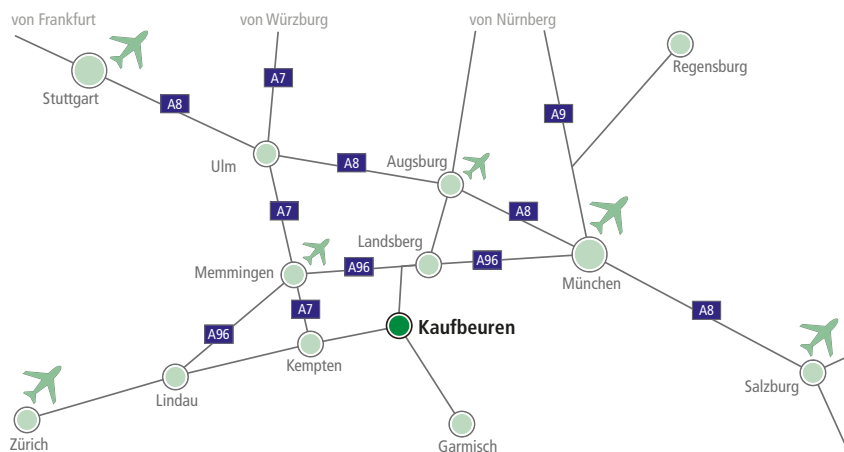
Measurement Technology



Teleservice



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