



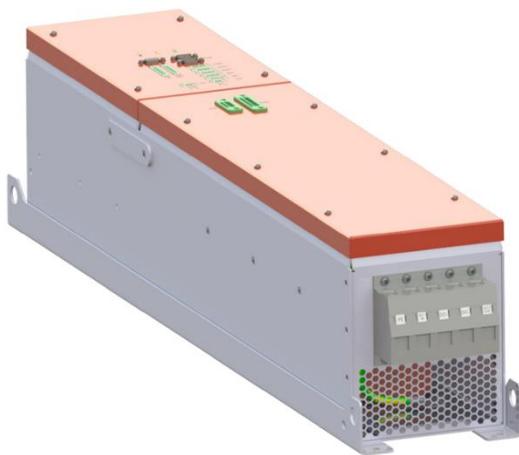
AEP 100, Chokebox

DC/DC converter with Choke box

- Innovative in energy storage & Power Electronics
- Custom-made solutions
- Complete solution: storage & Power Electronics
- Design and system integration

Features

- Integrated inrush current limiter for DC-Link capacitor, voltage sensor and output capacitor
- Several devices mountable alongside each other, cable connection only on two sides
- Well suited for electrical cabinet mounting
- All components are integrated for conversion DC to DC bidirectional



Applications

- DC/DC converter (e.g.) charging and discharging of energy storage

Mechanical Data

Width x Depth x Height
186 x 1016 x 239 mm
Approx. 45 kg

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Technical Characteristics

Symbol	Parameter	Description	Value	Unit
	General			
V_{in}	Input voltage		≤ 800	V
f_{sw}	Switching frequency		≥ 6	kHz
I_{max}	Output current	@ $F_{sw} \geq 8$ kHz Operating range and conditions see figure 5 below	180	A
L	Inductance of the chokes	The chokes will be adopted for the particular application	3 x 800 3 x 70	μ H A
	Output capacitance		60	μ F
	Connection cross-section		16	mm ²
	Environmental			
	Operating temperature range		0 till +40	°C
	Storage temperature range		-20 till +60	°C
	Max. operational altitude		2000	m above sea level
	Degree of protection		IP20	
	Mechanical data			
	Weight		45	kg
	Width		186	mm
	Height		239	mm
	Depth		1016	mm
	Cooling			
	Coolant	Forced air cooling		
	Airflow		300	m ³ /h

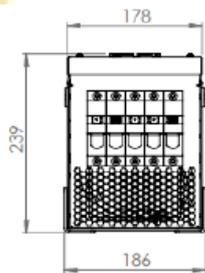


Figure 1: Front view

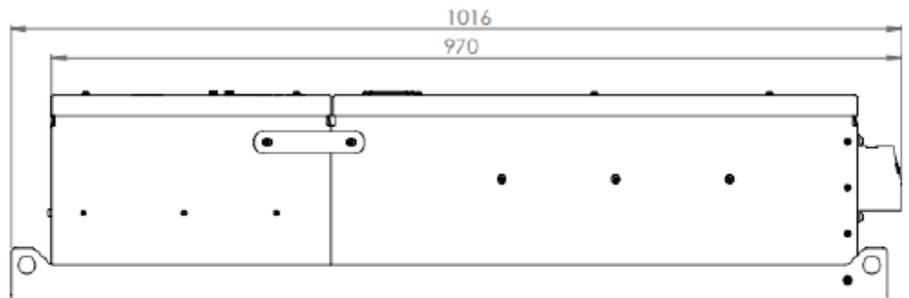


Figure 2: Side view

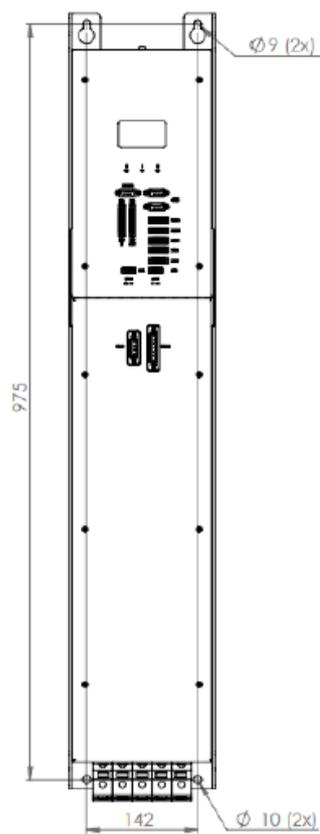


Figure 1: Top view

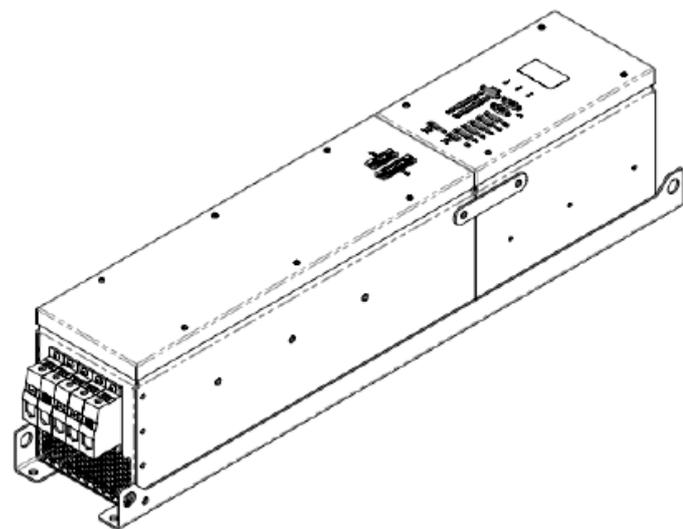


Figure 4: Perspective view

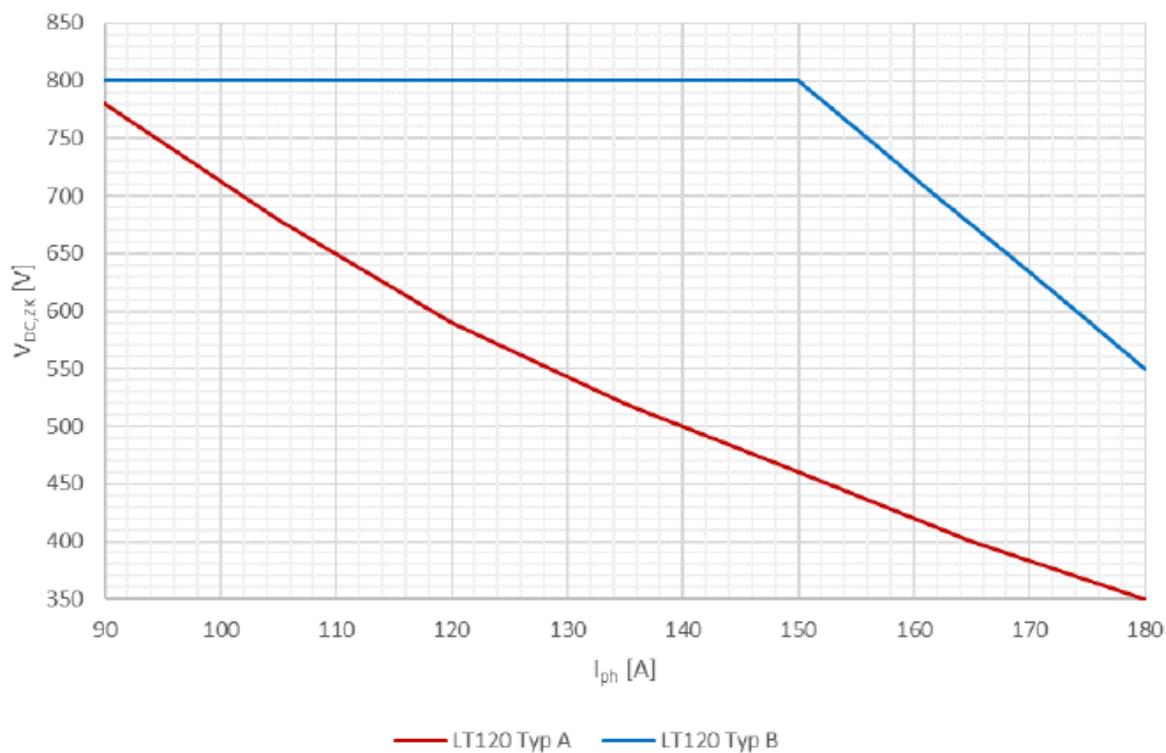


Figure 5: Operating voltage/current range of the Choke Box AEP 100 IP20 at 8kHz

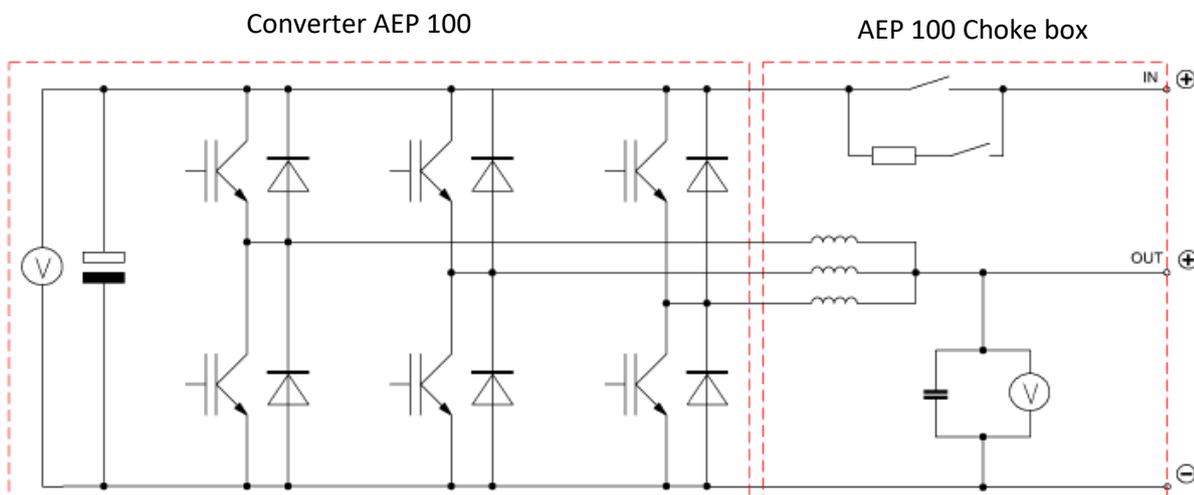


Figure 6: system overview of the choke box AEP100