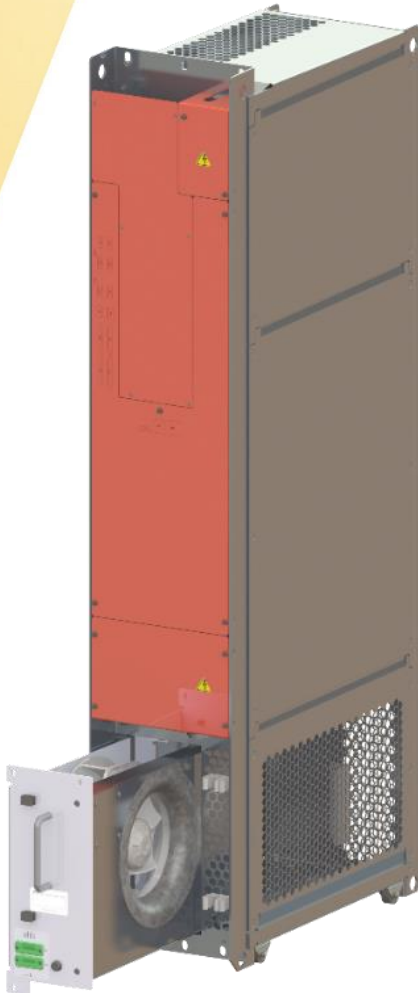




## Isolated DC/DC converter



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

### Features

- 100 kW converter, continuous
- 120 kW peak
- Galvanic isolation
- Wide input voltage range (480V – 1100V)
- High current density
- Low switching losses
- High efficiency
- Switching frequency inaudible by humans
- User interfaces: CAN-bus, Ethernet, Binary in- and outputs, Analog inputs
- Well suited for mounting in an electrical cabinet

### Mechanical Data

Length x Width x Height  
515,5 x 230,8 x 1280 mm  
Approx. 125 kg

### Applications

- DC/DC converter for a battery-charging station for buses or cars
- Step up or step down converter

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## Technical Characteristics

Symbol	Parameter	Description	Value	Unit
General				
$V_{in}$	Input DC Voltage		480...1100	VDC
$I_{in, max}$	Maximum DC input current		175	A
$P_{out}$	Output power	Continuous, @ $V_{out} > 900V$	100	kW
$P_{out, max}$	Maximum power	Temporary, @ $V_{out} > 900V$	120	kW
$V_{out}$	Output DC voltage		$\leq 900$	V
$I_{out, max}$	Maximum DC output current		133	A
$\eta$	Efficiency	@ $V_{in} = 600V, V_{out}=750V,$ $I_{out} = 100A$	$\geq 97$	%
Communication connections				
	Auxiliary voltage		24	VDC
	Auxiliary current		<1	A
	Data	CAN bus Ethernet	2x 1x	
	Extra	Binary I/O  Analog input	12x IN 16x OUT 2x	
Environment				
$T_{op}$	Operating temperature		-20 till +40	°C
$T_{storage}$	Storage temperature		-40 till +60	°C
	Operational altitude		$\leq 2000$	m above sea level
	Operating humidity	Non condensing	0...85	%
	Degree of protection		IP20	
Mechanical data				
	Weight		~ 125	kg
	Width		230,8	mm
	Height		1280	mm
	Length		515,5	mm
Cooling				
$T_{m, max}$	Coolant	Forced air cooling		
	Fan voltage	Optional: 24VDC or 48VDC	230	VAC



## Dimensions [mm]

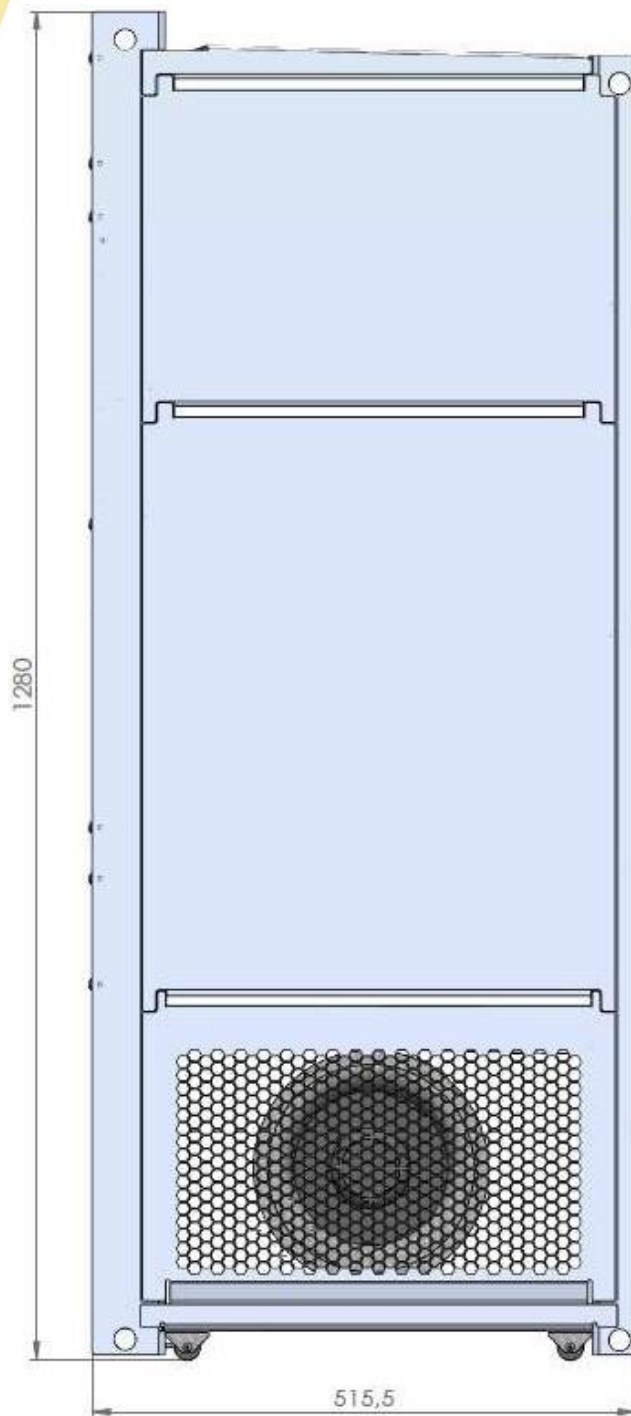


Figure 1, Side view



Figure 2, Front view

## Operation

### Continuous operating range

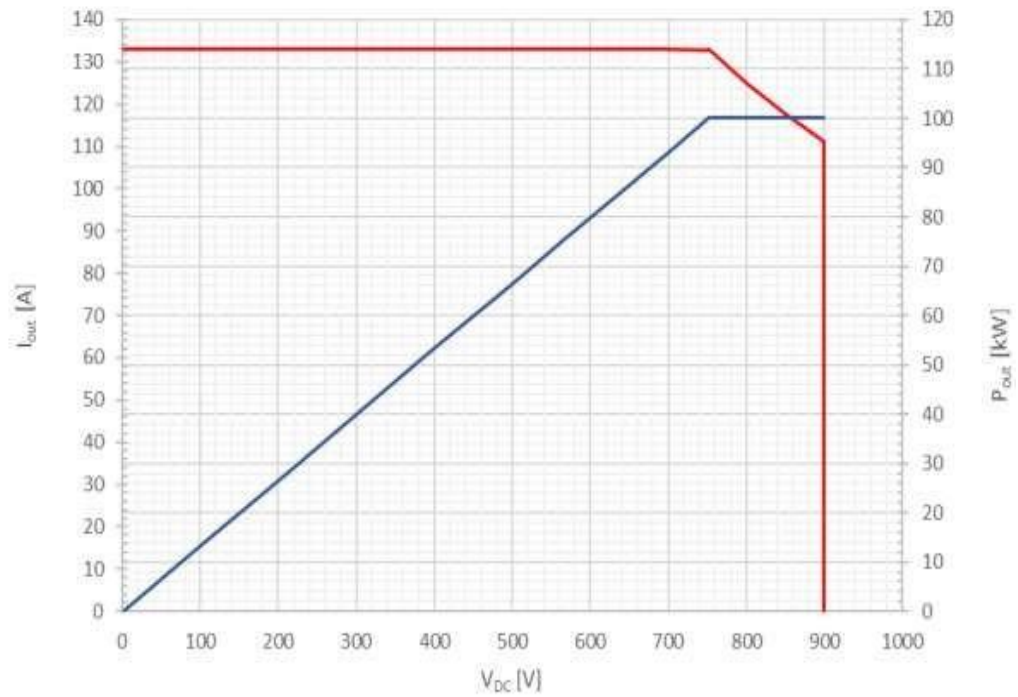


Figure 3 operating range of the isolated DC/DC converter (Power: blue, Current: red)



Figure 4: Typical installation in cabinet



### Accessories

