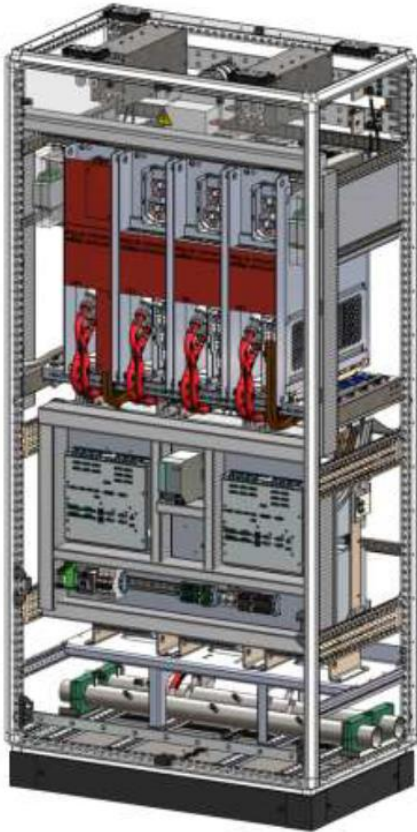




IsoAEP350-2x300kW

Isolated bi-directional DC/DC converter



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

Converter features:

- Avoiding common mode currents
- Galvanic isolation bridge for DC grid
- High current density
- Low switching losses
- High efficiency
- Switching frequency inaudible by humans
- Modular design with separate control cabinet
- Suitable for IT grids

Typical applications

- Battery charging station for buses or for cars
- Fuel Cell applications
- Test bench installations

Mechanical Data

Dimensions Frame for one cabinet :

Width x Height x Depth

1000 x 2000 x 600 mm

Approx. Weight: t.b.d. kg



Technical characteristics

Symbol	Parameter	Description / Conditions	Version	Value
General				
V _{nom}	In- and output DC voltage	V1	<1200	V
		V2	<900	V
I _{in,max}	Maximum DC current	V1	2x 290	A
		V2	2x 375	A
P _{out}	Max cont. output power		2x 300	kW
η	Efficiency	@ V _{out} =1050V, I _{out} = 290A,	≥ t.b.d.	%
External connections				
	Binary I/O			
	Analog input			
	Auxiliary voltage		230	V
	Field Bus Compatible			
	EtherCAT			
	PROFINET-IRT			
	Modbus-TCP			
	CAN			
Environmental conditions				
T _{op}	Operating temperature		0 ... +40	°C
T _{storage}	Storage temperature		-20 ... +60	°C
	Operation altitude		≤ 2000	m above sea level
	Operating humidity	Non condensing; < 25 g/m ³	0 ... 85	%
	Degree of protection	Higher IP ratings are possible	IP20	
Mechanical data				
	Weight		t.b.d.	kg
	Width		1000	mm
	Height		2000	mm
	Depth		600	mm
Cooling				
	Cooling type	water/glycol cooling		
	Volume flow		105	l/min
	Cooling water temperature		15...25	°C