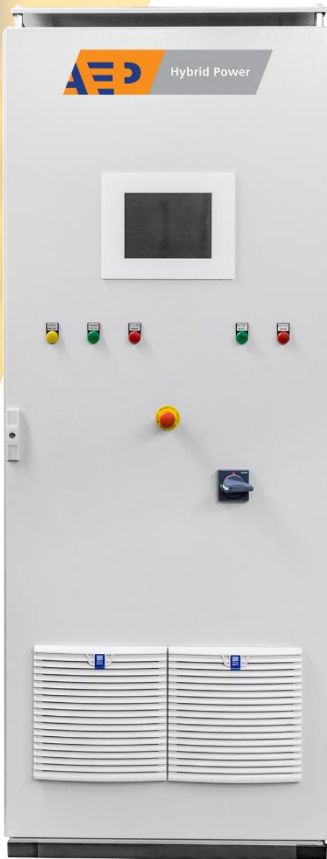




Hybrid Power

## 120 kW Charge Station



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

### Features

- 120 kW charge power
- Rated current 230A (up to 276A)
- Galvanic isolation
- Ground fault detection/Isolation monitoring
- Optional: Connection standard: IEC62196
- Optional: Charging standard: IEC 61851-1/23/24 (mode 4)
- Main contactor with pre-charge
- DC-switch
- Safety control integrated
- CAN interface, HMI optional
- Voltage-, current- and power control modes

### Mechanical Data

Height x Width x Depth  
2000 x 800 x 600 mm  
Approx. 675 kg

### Applications

- Charging electric vehicles
- Charging automatic guide vehicles
  - Maritime
  - Industrial
  - Combination diesel-electric, fuel cell & batteries

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## Technical Characteristics

Symbol	Parameter	Description	Value	Unit
<b>General</b>				
$P_R$	Rated power	Continuous	80	kW
$P_{max}$	Max. charge power	@ $U_{OUT}$ 430V, $I_{OUT}$ 276A, D 50%	120	kW
$F_r$	Switching frequency		4	kHz
$\eta_r$	Efficiency	@ $P_r$	>95	%
<b>Input</b>				
	Grid connection	3 Phase, 5-wired		
$U_{in}$	Rated voltage	$\pm 10\%$	400	VAC
$f_n$	Line frequency		50/60	Hz
<b>Output</b>				
$U_{out}$	Variable voltage range		0 – 470	VDC
$U_{out,max}$	Max. operating voltage		500	VDC
$I_{nom}$	Nominal current		230	A
$I_{OUT}$	Current range		Up to 276	A
$I_{RMS}$	Ripple current	@ $I_{OUT}$ 276A, $U_{OUT}$ 260V	10	A RMS
<b>Safety</b>				
	Safety chain	Stop on door, external (hard-wired)		
	Ground fault	Digital ground fault monitoring		
<b>Environment</b>				
$T_o$	Operating temperature		-20 till 30	°C
$T_s$	Storage temperature		-45 till 45	°C
	Cooling type	Forced air cooling		
<b>Communication</b>				
	Data	CAN		
	Control signals	ON/OFF; Reset; Emergency stop		
	HMI	Optional		



## Mechanical Data

Height x Width x Depth: 2000 x 800 x 600 mm  
Weight: Approx. 675 kg  
Enclosure: IP22

## Charger operation with manual setpoints

