



Hybrid Power



36kW Mobile Charge System

AEP-MFCS-2-36

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

Features

- 36 kW charge power
- Charge current up to 50A
- Charge voltage up to 720V
- Galvanic isolation
- Main contactor with pre-charge
- DC-switch
- Safety control integrated
- Voltage-, current- and power control modes
- Optional: Connection standard: IEC62196
- Optional: Charging standard: IEC 61851-1/23/24 (mode4)
- Optional: CAN interface
- Optional: Isolation Monitoring

Mechanical Data

Input Transformer Box

Height x Width x Depth
700 x 600 x 600 mm
Approx. 275 kg

Electronics Box

Height x Width x Depth
300 x 800 x 600 mm
Approx. 75 kg

Applications

- Charging electric vehicles
- Charging automatic guide vehicles

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Technical Characteristics

Symbol	Parameter	Description	Value	Unit
General				
P_{nom}	Nominal power		36	kW
f_r	Switching frequency		8	kHz
η_r	Efficiency	@ P_r	>90	%
Input				
U_{in}	AC voltage	$\pm 10\%$	400	VAC
f_N	Line frequency		50	Hz
	Grid connection		4-wire	
Output				
U_{out}	Output voltage range		0 – 720	VDC
I_{max}	Charge current range		0 – 50	A
Environment				
T_o	Operating temperature		-20 till 45	°C
T_s	Storage temperature		-20 till 45	°C
	Cooling		Air	
Communication				
	Data	RS232 for diagnostics and configuring Optional: control and set-point by CAN		
	Control signals	Main-switch, ON/OFF; Enable, Reset, Analogue current set-point, Emergency stop		
	Feedback signals	Ready, Active, Error, Analog volt- and current meter		
	Charge Signaling	CP/PE		

Mechanical Data

Input Transformer Box

Height x Width x Depth: 700 x 600 x 600 mm
Weight: Approx. 275 kg
Enclosure: IP-41

Electronics Box

Height x Width x Depth: 300 x 800 x 600 mm
Weight: Approx. 75 kg
Enclosure: IP-41