aΞp Hybrid Power

36 kW Mobile Charger
Tropical

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

Features

- Mobile CCS station
- Air conditioned
- IP54 cabinet with IP34 cooler
- Rated Power: 36 kW
- Input voltage: 400 VAC ± 10%
- CEE 64A socket + plug 3m cable
- Output voltage range: 0 – 720 VDC
- Phoenix CCS Type 2 plug with 5m cable
- User-interface: lamps
- Temperature range: -20 to +45°C
- Humidity up to 99%

Applications

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

Mechanical Data

Length x Width x Height
600 x 600 x 1760 mm (including rolls and cooler)
Approx. 350 kg

Symbol	Parameter	Description	Value	Unit
	General			
P_R	Rated power		36	kW
P_{max}	Max. charge power	@U_{OUT} 720V, I_{OUT} 50A, D 100%	36	kW
F_r	Switching frequency		4	kHz
η_r	Efficiency	@P_r	>95	%
	Input			
	Grid connection	3 Phase, 5-wired		
U_{in}	Rated voltage	±10%	400	VAC
f_n	Line frequency		50	Hz
	Output			
U_{out}	Variable voltage range		0 – 720	VDC
$U_{out,max}$	Max. operating voltage		730	VDC
I_{nom}	Nominal current		50	A
I_{OUT}	Current range		Up to 50	A
	Safety			
	Safety chain	Stop on door, external (hard-wired)		
	Ground fault	Digital ground fault monitoring		
	Environment			
T_o	Operating temperature		-20 till 45	°C
T_s	Storage temperature		-45 till 45	°C
	Humidity		Up to 97	%
	Cooling type	Forced air cooling, air-conditioned		
	Communication			
	Data	CAN		
	Control signals	ON/OFF; Reset; Emergency stop		
	HMI	Optional		

Standards

- Connector: IEC 62196-3 (type 2)
- DC charging: IEC 81851-23
- DIN 70120
- Vehicle-charger communication: ISO 15118(-3)

User interface

- Charge indication
    - Green: ready to charge
    - Flashing green: charging
    - White ring: charge finished
- Error indication by red lamp, including reset button
- Manual stop button
- Emergency stop button

Mechanical Data

Height x Width x Depth: 1367 x 600 x 600 mm
Weight: Approx. 320 kg
Enclosure: IP22