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k.Charger

MODULAR ALL-IN-ONE CHARGER FOR LOCAL PUBLIC TRANSPORT AND FLEET OPERATORS OF BUSES AND TRUCKS

Control cabinet housing (KC-ACXXX-CX)

Housing for ceiling installation (CM-ACXXX-CX)

Our turnkey all-in-one charger is designed for fast and night charging of heavy motor vehicles such as buses and trucks. The modular 19-inch structure allows several configurations for different energy supp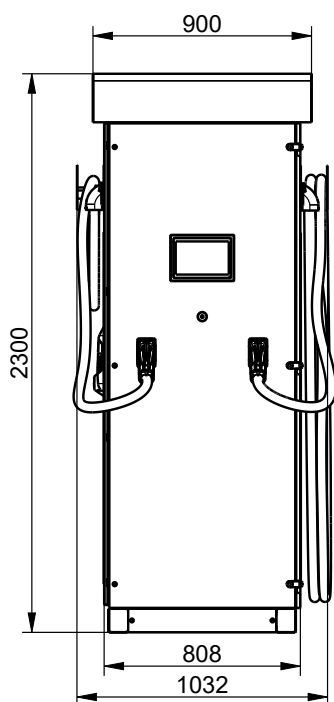ly systems and performance requirements, as well as customized housings. As standard the all-in-one device is available as cabinet version or special housing for ceiling or wall installation and can be operated from the catenary or from the public grid.
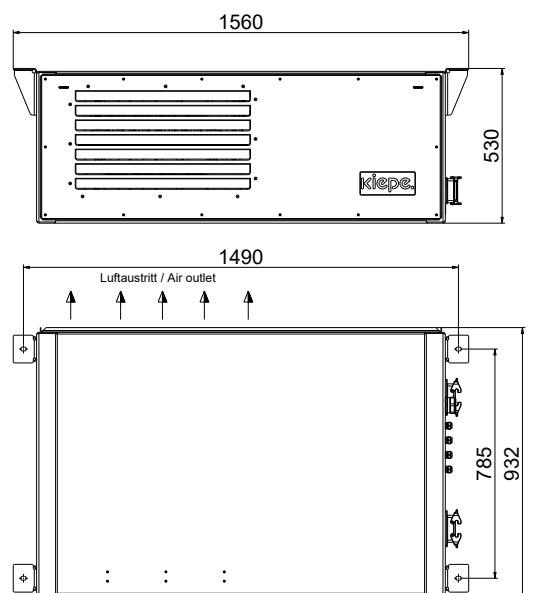
Your Advantages

- Energy supply from catenary or public grid
- Available as control cabinet and housing for ceiling and wall installation
- Scalable due to modular design
- Charging capacity from 60 kW – 240 kW per charging point
- 4 or 8 m cable with CCS Combo 2 plug
- Simple and intuitive operation
- Seamless integration into standard charging management software

Drawing / dimensions

KC-ACXXX-C2

CM-AC120-C2

Technical data

Charging stations for catenary current 600 V and 750 VDC are also available on request.

Charging Interface	KC-AC120-C2	CM-AC120-C2	KC-AC240-C2	CM-AC240-C2	KC-AC360-C2
Number of interfaces	2		2		2
Charging power per interface[1]	Max. 60 kW		Max. 120 kW		Max. 180 kW
Fast charging[2]	Max. 120 kW		Max. 240 kW		Max. 240 kW
Maximum charging current per charging interface	400 A		500 A		
Voltage range	150 VDC ... 1000 VDC				
Connection interface	4 m cable with CCS Combo 2 plug (optional 8 m)				
Input AC					
Rated power	130 kVA		260 kVA		390 kVA
Input voltage	3x 400 VAC, 50 Hz (TN-S oder TN-C-S, L1/L2/L3/N/PE)				
Power factor (cosφ)	≥ 0,98				
Harmonic distortion (THDi)	≤ 5 %				
Mechanical specifications					
Housing type	Control cabinet	Ceiling installation	Control cabinet	Ceiling installation	Control cabinet
Weight	ca. 370 kg	ca. 200 kg	ca. 460 kg	ca. 300 kg	ca. 550 kg
Cooling	forced air cooling				
Protection class	IP 54 (suitable for outdoor use)				
Environmental conditions					
Operating temperature	-20°C to +55°C				
Relative humidity	95 % (non-condensing)				
Efficiency	≥ 95 %				
Noise Level	≤ 65 dB in 1 m distance				
Standards					
Charging station	IEC 61851-23				
Vehicle communication	ISO 15118, VDV 261				
Backend communication	OCPP V2.0.1 / V1.6 JSON				
Product conformity	CE (low voltage, machinery and EMC directive)				

[1] If charging takes place simultaneously at all outputs.
[2] The "quick charge" function is only available for devices with 2 outputs
   and is only possible if charging is not taking place at the second output.

Focus

With the modular and scalable building block system we offer a solution that can be perfectly adapted to the individual requirements of transport companies and logistics centres. Whether depot solutions for bus fleets or customized charging infrastructure for special vehicles - our range of products provides the flexibility that modern operators need. Maximum reliability and a design that is optimized for quick and easy maintenance, guarantees operational readiness with minimum downtime a decisive factor for

continuity in line operation. The robust construction and the ability to adapt the system to different locations and housing shapes make our charger the ideal choice for municipal transportation companies, engineering offices and fleet operators. With our solution, we offer the basis for a future-proof and efficient charging infrastructure that meets the increasing requirements of climate-friendly public transport. Flexible, powerful and made for sustainable mobility for everyone who moves people and cities.

Intelligent charging

Our charging station relies on vSECC technology from Vector, one of the leading control solutions for safe and efficient charging of electric vehicles.

- **Fast & safe**
  Optimized charging processes for maximum efficiency

- **Strong communication**
  Support for common standards such as ISO 15118 & OCPP

- **Future-proof**
  Update-capable for upcoming technologies

Simple diagnostics & maintenance

Our charging station offers intuitive operation and reliable status display for smooth use and maintenance:

- **10" touch screen**
  Convenient operation, direct control and detailed diagnostic displays (standard for control cabinet)

- **Flexible status display**
  With special housings, e.g. for ceiling installation, a remote light column ensures for clear status and charge level displays

- **Modular 19" design**
  Easy maintenance and quick replacement thanks to standardized modules; reduces downtimes and facilitates storage

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