



CURB CHARGER

**ROBUST. SPACE-SAVING.
MODULAR SCALABLE.**



red**dot** winner 2025



PIERBURG

THE CURB CHARGER: THE CITY'S SOCKET.

CURB CHARGER 1.1

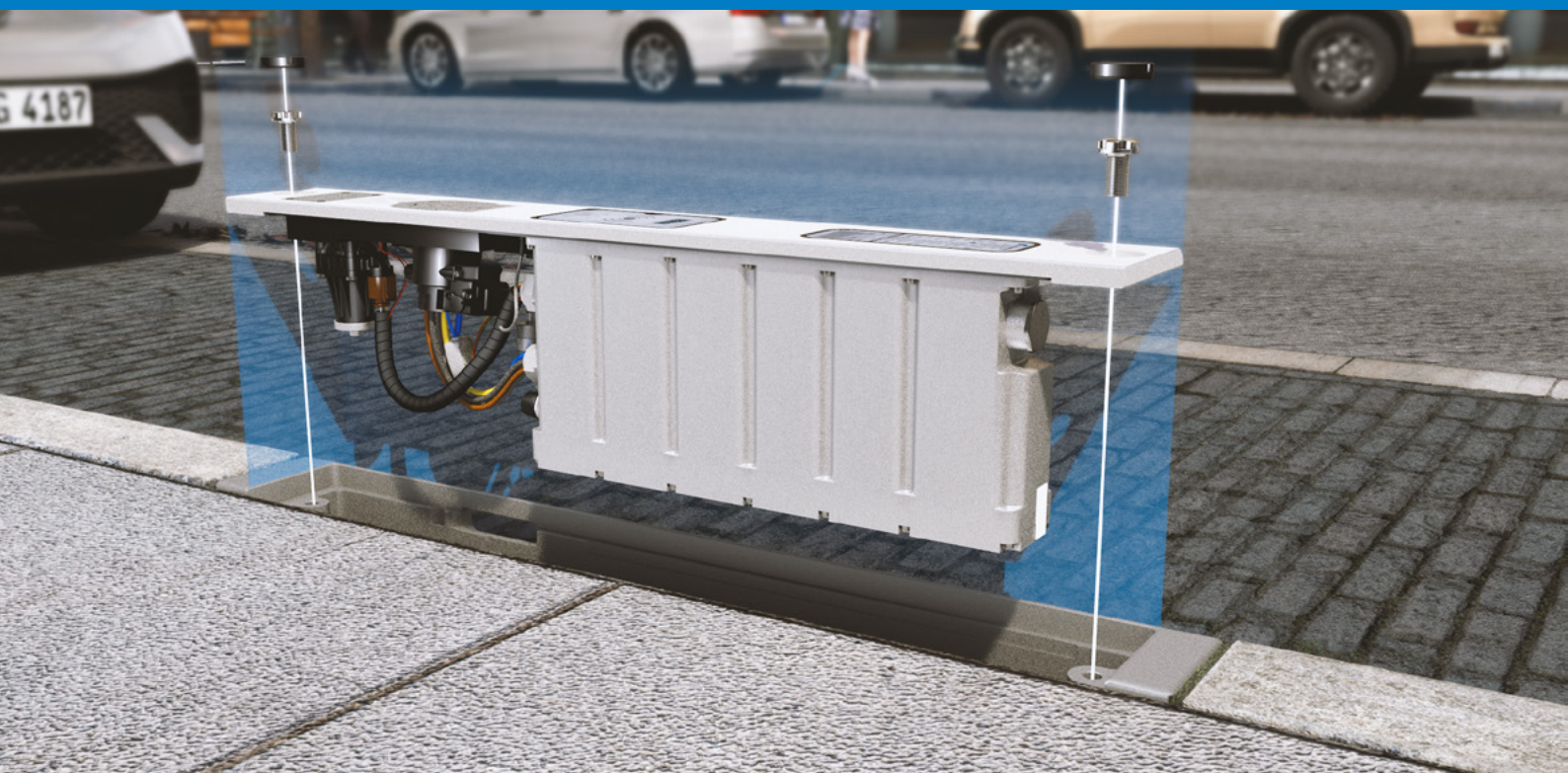
INSTALLATION TYPE: CONCRETE

With its innovative approach, the Curb Charger is unlocking a completely new dimension of electric charging. By utilizing existing urban infrastructure and delivering high charging performance, a fully-fledged alternative to conventional charging stations is presented. In particular, the Curb Charger helps solve the problem of limited space in both urban and rural areas and enables a quick, easily expandable, and cost-effective installation of new, publicly accessible charging points.



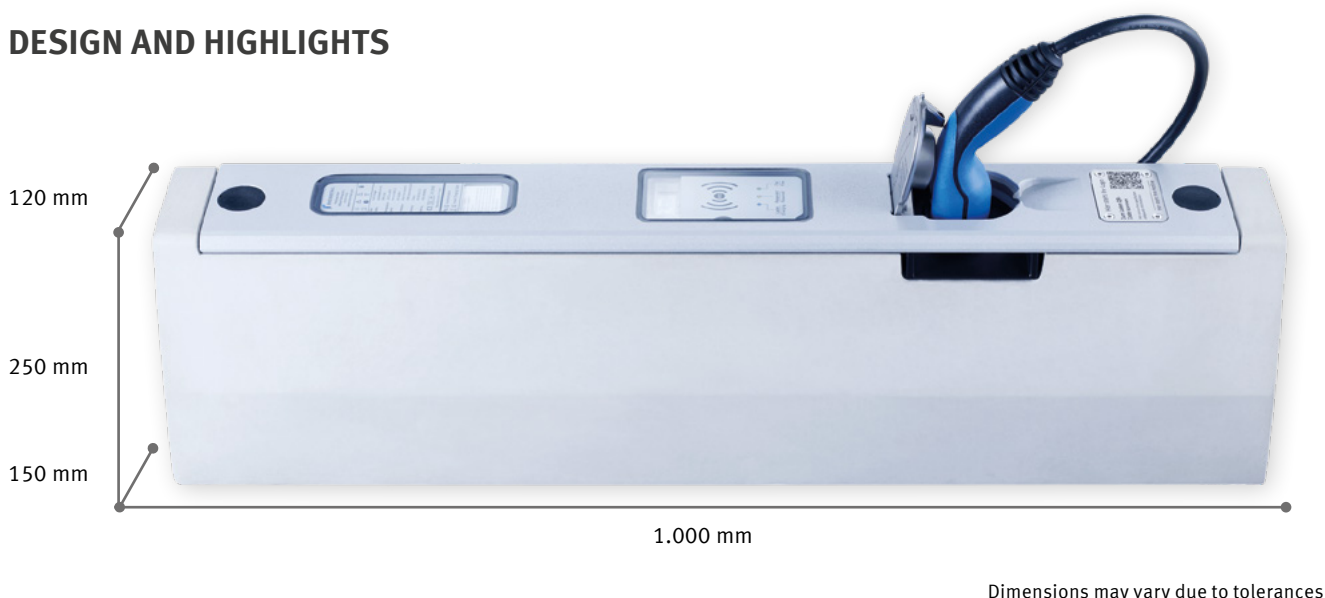
GOOD TO KNOW

- up to 22 kW charging power
- compliant with calibration law
- intuitive one-hand operation without curb contact
- integrated 4G modem and Ethernet
- intelligent load management
- Authentication via RFID, QR code, or operator app
- Cooling and heating concept for reliable operation in all seasons
- reliable operation in rain through encapsulated electronics (IP68)
- easy retrofit and maintenance through replaceable electronic module



HOW DO WE DO IT?

DESIGN AND HIGHLIGHTS



MODULAR HOUSING DESIGN



The Curb Charger was developed for easy installation as well as fast service and maintenance. Via CurbSwap, the installed electrical module can be completely removed from the curb and replaced with a spare module. A quick connector reestablishes the module connection to the low-voltage network in no time. The result: significant cost savings during civil works and electrical installations through the use of dummy curbs across larger areas – while minimizing downtime per charging point during maintenance.

SMART CONNECTIVITY



Equipped with standardized interfaces, an integrated 4G modem, and Ethernet, the Curb Charger takes communication to the next level. Data is seamlessly exchanged between the charger and backend systems via the certified OCPP 1.6 communication standard. The advantage: real-time insights into charging sessions, customer reservations, and charge point status – plus the ability to perform over-the-air software updates. This ensures the Curb Charger is always up to date with the latest technological developments.

INNOVATIVE COOLING AND HEATING CONCEPT



A carefully engineered cooling system ensures reliable operation even at high ambient temperatures and prevents overheating. In addition to targeted heat dissipation, integrated temperature monitoring guarantees optimal charging performance. At sub-zero temperatures, a built-in heating system ensures visibility and reliable, snow- and ice-free operation of the charger.

ELECTRIC CHARGING: EVEN IN THE RAIN



Encapsulated electronic components (IP68) and a sealed charging socket with integrated water drains ensure reliable charging, even in wet conditions. If water accumulates on the street and could compromise safe charging, a water level sensor interrupts the process before the residual current device (RCD) is triggered.

SAFETY FIRST



In the event of an electrical fault, integrated surge protection and continuous contactor welding and PE (protective earth) monitoring provide additional safety for people, electric vehicles and connected systems.

MORE CHARGING SOLUTIONS – MORE OPTIONS.

CURB CHARGER 1.5

INSTALLATION TYPE: CAST IRON, PAINTED/UNPAINTED

The cast iron Curb Charger expands the portfolio with a particularly robust and economical solution. Thanks to its striking surface, this variant of the Curb Charger stands out clearly from surrounding kerbs, meaning that it can be seen more easily in the street scene. The proven material, as used for maintenance hole covers, guarantees durable, familiar and reliable quality. Alternatively, the more economical cast-iron Curb Charger is also available in a concrete grey finish.



GROUND CHARGER 1.5

INSTALLATION TYPE: FLUSH

If there is only limited space available and a robust solution is required, the flush-mounted Curb Charger is the correct choice. The 22-kW charging solution for delivery vehicles, short-haul HGVs and other fleet vehicles can be driven over, requires no bollards, enables safe manoeuvring and has a replaceable electronic module for fast maintenance. This makes it ideal for vehicles with daily use and long periods of downtime: it is compact, robust and perfectly tailored to the needs of modern logistics sites.



TECHNICAL DATA

General information		Module 1.1	Module 1.5	Module 1.5
		Concrete	Cast iron	Flush
Charging mode	Mode 3 charging according to IEC 61851-1	•	•	•
Charging connector	Type 2, Case B	•	•	•
Authorization	Open charging, RFID, operator app, QR code	•	•	•

Mechanical data		Module 1.1	Module 1.5	Module 1.5
		Concrete	Cast iron	Flush
Material	Curb: concrete	•		
	Electronics module: stainless steel & aluminum			
	Curb: cast iron (painted/unpainted)		•	
	Electronics module: stainless steel & aluminum			
	Drive-over plate: hard rubber			•
	Electronics module: stainless steel & aluminum			
Locking	Socket flap, unlocked upon authorization at the curb or through the app	•	•	•
Dimensions (L x B x T)*	1,000 x 250 x 120/150 mm³ (other curb sizes available on request)	•	•	•
Weight	approximately 80 kg	•	•	•
IP protection rating	IP54 (entire system), IP68 (encapsulated electronic unit)	•	•	•
IK protection rating	IK10	•	•	•

Electrical data		Module 1.1	Module 1.5	Module 1.5
		Concrete	Cast iron	Flush
Max. charging power per charging point	up to 22 kW	•	•	•
Nominal voltage, current, frequency	3x230V/400V+N+PE, 32 A, 50 Hz	•	•	•
Protection	6 mA DC fault current detection	•	•	•
Surge protection	Typ 2 + Typ 3	•	•	•

Connectivity		Module 1.1	Module 1.5	Module 1.5
		Concrete	Cast iron	Flush
Communication protocols with IT backends	OCPP 1.6	•	•	•
Communication	Integrated 4G modem, Ethernet, RFID	•	•	•
User Interface	Status information through LED display, operator app	•	•	•
Display	Externally readable, calibrated energy meter (MID-compliant)	•	•	•

*Dimensions may vary due to tolerances



CONTACT AND SERVICE

Do you need comprehensive information on installing and maintaining the Curb Charger and the associated electronic module? Our service experts are always at your side with help and advice for individual requests or further questions.

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