



CURBCHARGER

ROBUST · SPACE-SAVING · MODULAR SCALABLE



red**dot** winner 2025



CHARGING. SIMPLE. REINVENTED.



THE RHEINMETALL CURB CHARGER

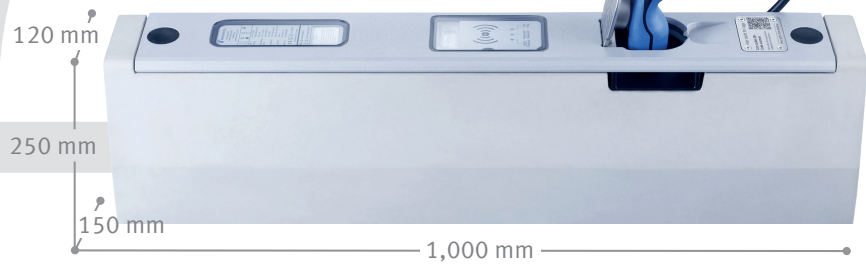
With its innovative approach, Rheinmetall is opening up an entirely new dimension of electric vehicle charging. By utilizing existing urban infrastructure and delivering high-performance charging capabilities, it offers a fully fledged alternative to conventional charging stations.

The curb charger, in particular, helps address the issue of limited space in both urban and rural areas and enables fast, easily expandable, and cost-effective installation of new, publicly accessible charging points.

HIGHLIGHTS

- 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





(Dimensions may vary due to tolerances)

THIS IS HOW WE DO IT.

MODULAR HOUSING DESIGN



The Rheinmetall 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 re-establishes 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 chargepoint status – plus the ability to perform over-the-air software updates. This ensures the Rheinmetall 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.

TECHNICAL DATA

General Information

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

Material	Curb: concrete; Electronics module: stainless steel & aluminum
Locking	Socket flap, unlocked upon authorization at the curb or through the app
Dimensions (L x H x W)*	1,000 x 250 x 120/150 mm ³ (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

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 current fault detection
Surge protection	Type 2 + Type 3

Connectivity

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

DON'T DELAY – CONTACT US TODAY!

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