



smallBOX instead of Wallbox

simply smart charging

chargeBIG
powered by MAHLE



smallBOX charging system

Compact in the parking lot, smart in the utility room

- ✓ Incl. load management
- ✓ Incl. sub-distribution
- ✓ Compliant with calibration law
- ✓ Flexibly expandable

up to 22 kW

From the piston to the charging cable

100 years of automotive expertise



The origins of chargeBIG

MAHLE is a leading global development partner and supplier to the automotive industry, serving customers in both the passenger car and commercial vehicle sectors. Founded in 1920, the technology group is working toward the climate-neutral mobility of tomorrow, with a focus on the strategic areas of electromobility and thermal management, as well as other technologies aimed at reducing CO₂ emissions. Today, one in every two vehicles worldwide is equipped with MAHLE components.



The chargeBIG approach



MAHLE chargeBIG is a wholly owned subsidiary of the MAHLE Group and offers professional and scalable AC charging infrastructure. The centralized system approach of the smallBOX products enables quick and easy installation. The integrated load management system maximizes the use of the existing power connection without overloading the grid. The chargeBIG app offers users quick and easy activation as well as full transparency regarding metrology-compliant charging processes. Additionally, chargeBIG charging points are eRoaming-capable, allowing users to conveniently start the charging process using their preferred charging app.

Scalable and customized charging solution from a single source

With chargeBIG, you're investing in a sustainable and future-proof charging solution for your location and your fleet. The centralized system approach offers significant cost savings not only in terms of charging hardware but also in terms of maintenance. Unlike conventional solutions, chargeBIG integrates sub-distribution directly into the system.

Easy installation

Thanks to the smallBOX and the preconfigured chargeCLUSTER sub-distribution system, our charging infrastructure can be easily integrated into the building's infrastructure.

Made in Germany

chargeBIG charging infrastructure is developed and manufactured entirely in Germany ensuring the highest quality, reliability, and sustainable value creation.

Easy to maintain

Significant cost savings on annual maintenance thanks to the centralization of electronic components.

Scalable

The smallBOX is available starting with just 4 charging points and can be flexibly expanded to an unlimited number.

In compliance with calibration law

chargeBIG charging infrastructure is VDE-certified and suitable for commercial billing processes.

Nationwide support

chargeBIG offers nationwide support and dedicated contact persons.

smallBOX

The world's smallest wallbox



smallBOX charging system

Charging power Three-phase up to 22 kW

The chargeBIG smallBOX is ideal for any application. Available as a single or dual charger, the smallBOX features a minimalist design in parking lots.

How the smallBOX charging system works



smallBOX
Compact Wallbox

+



chargeCLUSTER
Preconfigured sub-distribution

=

The charging
solution for
every use case

- Permanently attached charging cable with a Type 2 plug
- Sleek design to minimize space usage in parking lots
- Various mounting options available
- Lower costs in the event of damage or vandalism thanks to a centralized design

Mounting variants

Mounting variants for every use case



Column

Stainless steel charging column for up to two charging points. Ideal for installation with precast foundations in outdoor areas.



Wall mount

Sturdy, high-quality polypropylene/polyamide housing. Ideal for underground car parks thanks to its simple wall-mounting design.



Double T-beam

Mounting kit



Clamp mount

Fence installation

Custom solutions



Elevated

Cable duct

No civil engineering work required. Quick and cost-effective installation and easy access to the cable routing are possible.



Cable reel

Ideal for ceiling mounting as well as for freestanding charging points.

chargeCLUSTER

Integrated and centralised sub-distribution



Wall mount

Up to 6

Charging points per unit

Dimensions (W x H x D)
600 x 800 x 300 mm



Stand mount

Up to 12

Charging points per unit

Dimensions (W x H x D)
1400 x 1200 + 200 (Socket) x 300 mm



Stand mount

Up to 42

Charging points per unit

Dimensions (W x H x D)
1950 x 1850 x 400 mm

Technical specifications:

Charging power

Loadmanagement

Interfaces

Compliance with calibration law

Sub-Distribution

Single-phase and three-phase, up to 22 kW

Static or dynamic

Modbus TCP, OCPP 1.6J

Yes

Integrated

- Configurable charging power
- Attached Type 2 charging cable (configurable cable options)
- Integrated RCD & DC fault current sensor
- Integration into the fire alarm system
- Communication via LTE & LAN
- Integration into the building management system

In the chargeBIG charging infrastructure, the chargeCLUSTER sub-distribution system is an integral part of the system, ensuring seamless communication between the charging points. Compared to conventional wallbox charging solutions, the chargeCLUSTER sub-distribution system comes pre-configured, enabling a significant reduction in costs and effort.

All-in-one solutions

Charging solutions for construction sites, events and public car parks



Portable charging solution

smallBOX PORTABLE

incl. 4 charging points

Dimensions (W x H x D)
1300 x 1000 x 600 mm

- 4 x Type 2 charging cables, 7.5 m
- Integrated RCD & DC fault current sensor
- Crane and portable
- Ready for immediate use
- Billing via the chargeBIG app or third-party providers via eRoaming
- Connection via CEE plug, up to 63 A



smallBOX PUBLIC

incl. 4 charging points

Dimensions (W x H x D) excluding charging points
450 x 1646 x 297 mm

- 4 x Type 2 charging cables (configurable cable length)
- Integrated terminal and RFID reader for credit and charging cards
- Integrated RCD & DC fault current sensor
- Billing via the chargeBIG app or third-party providers via eRoaming

Technical specifications:

Charging power

Loadmanagement

Interfaces

Compliance with calibration law

Sub-Distribution

Single-phase and three-phase, up to 22 kW

Static or dynamic

Modbus TCP, OCPP 1.6J

Yes

Integrated

chargeBIG TERMINAL

The charging terminal for every use case



TERMINAL

to activate the
charging points

Dimensions (W x H x D)
450 x 1646 x 297 mm



- Activation via RFID reader using a credit or prepaid card
- Selection of charging points via the touchscreen terminal
- Compatible with third-party backend systems

The chargeBIG TERMINAL enables charging sessions to be started quickly. As a smallBOX PUBLIC with four Type 2 charging cables attached, the system is ideal for public charging or for electrifying visitor car parks. The systems are delivered pre-assembled and simply need to be installed and connected.

Leasing and rent-to-buy



Electrification without a high initial investment

With chargeBIG, you invest in predictable monthly instalments. This gives you financial flexibility and makes it easier to expand your charging infrastructure as and when you need to. This offers a significant advantage, particularly for larger projects: for an investment of between €25,000 and €100,000, the monthly leasing instalment is currently around 1.7% of the purchase price. (As of May 2026)

- approx. €425 per month for €25,000
- approx. €1,700 per month for €100,000



Cost-effectiveness in practice

A concrete example illustrates the potential:

18 charging points | €50,000 investment = approx. €850 monthly lease payment

The infrastructure can pay for itself even with low utilisation:

18 charging points × 30 days × 10 kWh* × €0.16** = €864 per month

- The revenue covers the lease payments
- Your charging infrastructure pays for itself during operation

*Fuel consumption based on an average daily commute of 50 km
**Assumption: industrial electricity price as of May 2026

Two models – maximum flexibility



Leasing – Focus on flexibility

- No large upfront investment
- Predictable monthly payments
- Preserves cash flow
- Greater financial flexibility
- High flexibility throughout the term
- Quick decision-making processes

Supported by our financing partner



Hire purchase – Focus on ownership

- Predictable instalments instead of a one-off investment
- Transfer of ownership at the end of the term
- Can be capitalised as a fixed asset
- Tax depreciation available
- Long-term availability of the infrastructure
- Ideal for funding schemes and internal requirements

Leasing is particularly suitable when liquidity and flexibility are the main priorities. The smallBOX charging system is ideally suited to reversible installations in particular, thanks to its various mounting options, meaning that the equipment can be removed at the end of the lease. Hire purchase is the right choice if you wish to take permanent ownership of the infrastructure.

Become a sales partner



Collaboration on marketing initiatives

Thanks to our in-house production facilities, we are able to produce high-quality marketing materials ourselves, ranging from image and video content to print and digital advertising campaigns.

Free sales training

Training sessions on charging solutions are delivered both on-site and online by product experts.

Sales support

Comprehensive sales materials and personalised support from partner managers.

Whitelabel & Co-Branding

Custom branding of our hardware and software solution is available.

Attractive commissions and bonuses

The sales programme offers attractive and profitable terms for partners.

Become a partner

Apply on our website to join the chargeBIG partner network.



Become an installation partner



Free training programme

Training sessions on charging solutions are delivered both on-site and online by product experts.

Technical support provided by chargeBIG

Comprehensive on-site or remote support provided by our project managers and technicians.

Reduced installation and maintenance costs

The modular system architecture reduces installation and maintenance costs and ensures a smooth commissioning process.

All components are perfectly coordinated

The smallBOX charging system consists of a compact wallbox solution and the pre-configured chargeCLUSTER sub-distribution unit.

One order is all it takes

Thanks to the intelligently designed turnkey system, chargeBIG can, on request, supply all the components required for installation and deliver them to the construction site. This means there is no need to allocate resources to ordering components.

Performance commitment

Charging infrastructure from a single source



Comprehensive consulting

- Application-specific analysis of the infrastructure on site
- Check framework conditions
- Financing and subsidy support
- Integration of existing systems

- Development of an individual charging-concept
- Configuration of a cross-building load-management
- Examination of possible photovoltaic & battery storage integration



Inspection & construction planning

- Preparation (contracts, permits, legal aspects)
- Assembly service on site incl. construction of charging infrastructure and ground work
- Technical approval based on VDE regulations



All-In-One installation



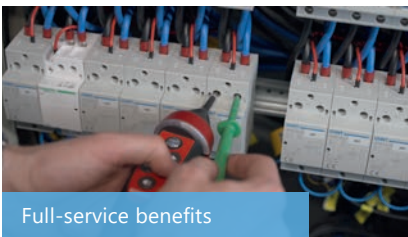
Operation & monitoring

- Introduction to the use of charging hardware and monitoring software
- Dashboards with charging and energy information and monthly reporting
- Utilization of the THG quota (kick-back)

- Calibration law compliant billing process towards B2B customers and B2C end customers
- Possible integration of third-party provider software
- Billing via app, credit / payment card or eRoaming



Billing according to calibration law



Full-service benefits

- Comprehensive maintenance packages
- Planning and implementation of maintenance measures in accordance with DGUV V3 and MessEG/EV
- 24/7 customer support
- Fault-finding service within 24 hours

chargeBIG Downloads

In our download area you will find further interesting content on our products, services and certifications.



Billing options

Start the charging process with the chargeBIG app in just a few seconds

- Activation via chargeBIG app (also possible without registration)
- chargeBIG app available for private and business smartphones
- Billing to third parties in compliance with calibration law possible
- Payment of charging processes via SEPA, credit card or PayPal
- Generation of billing codes for activation and cost center allocation



1

Scan QR code



2

Plug in charging cable



3

Select tariff and press "charge here"



4

Charging process view continuously



5

Finish charging process

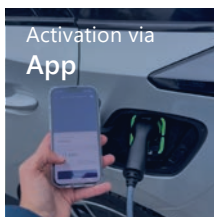
Further billing options

eRoaming

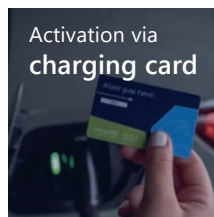
chargeBIG charging infrastructure is listed in common charging apps and can also be billed via these.

Terminal

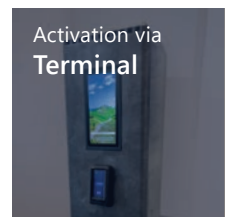
Charging processes can be billed at the chargeBIG payment terminal using an RFID charging card or debit and credit card.



Activation via App



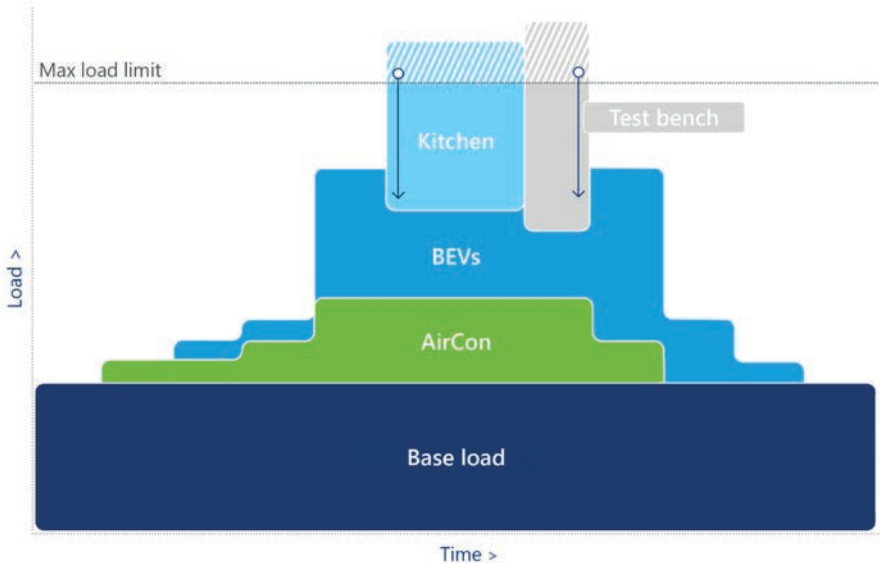
Activation via charging card



Activation via Terminal

Dynamic load management

Application of load management including other loads



Security

Dynamic load management reacts to the power consumption of the canteen and the test bench (see illustration) and regulates the charging power of the electric vehicles so as not to exceed the peak load. This ensures safe use of your connection without exceeding the voltage limit and operating temperature.

- Maximum utilization of the available connected load
- Integrated unbalanced load detection and avoidance
- Control with the charging strategy: "First come, first serve"
- Integration in building management system possible
- Fast response to load specifications
(see illustration: charging power of the electric vehicles is regulated to compensate for the energy consumption of the canteen and the test bench)

Cost efficiency

Dynamic load management reduces the cost of expanding the grid and avoids expensive peak loads.

This avoids automatic changes to higher electricity tariffs.

Operation and monitoring



Conformity with calibration law

Billing in compliance with calibration law is carried out via the chargeBIG backend and the user's smartphone becomes a calibrated meter.

Information such as temperature data, values for overvoltage protection and parameters for integration into the fire alarm system are transmitted between the charging hardware and the chargeBIG backend.

The backend creates invoice receipts for the users, transmits the payment data to the payment processor, generates a report on the charging data and provides the interface to the German Federal Network Agency (BNetzA) and the S.A.F.E. e.V. transparency software.

System integration & interfaces

The chargeBIG backend can be connected to other backends via corresponding standards such as the OICP standard (Open Intercharge Protocol). This means that chargeBIG charging points are eRoaming-capable.

The chargeBIG charging hardware can be operated via third-party backends using the OCPP 1.6J interface.

Reports & monitoring

The chargeBIG dashboard logs the kWh charged per user, vehicle and location.

It is also possible to combine different user groups (fleet, employees, public, etc.).

In addition, users and access codes can be managed accordingly, current charging processes and potential faults at the charging points can be viewed, tariffs for the charging current can be defined, energy data can be read out and extensive reports can be downloaded.

Maintenance and service



Qualified service

The certified chargeBIG partner network of electrical specialists provides support, repairs and troubleshooting. Choose from different service packages for a first-class and smooth charging experience.

Advantages of a centralized approach

Thanks to the central arrangement of the components in the chargeBIG system, you benefit from minimal maintenance costs and faster implementation. Individual components can be replaced thanks to the modular design. Any faults that occur can even be rectified remotely.

Error prevention

Service errors are avoided in particular by the fixed charging cable. The charging point is always released by the vehicle and there is therefore no risk of interference with a locked charging cable.

Easy maintenance

The annual maintenance includes: Visual inspection, testing in accordance with DIN VDE 0701/702, DGUV V3, DIN VDE 0105-100, functional testing, checking the backend connection, repeat testing of permanently loaded circuits and documentation of maintenance.

You can conveniently and easily arrange maintenance via the chargeBIG dashboard.

Service packages



Comprehensive maintenance packages Planning and implementation of maintenance measures in accordance with DGUV V3 and MessEG/EV 24/7 customer support Fault-finding service within 24 hours.

	Standard Package	Advanced Package
Maintenance charging cabinet	✓	✓
Service-Hotline	✓	✓
Electrical components		✓
Charging points		✓
Typ-2 plug		✓
Cable		✓
Brackets & metal components		✓
CPU Hardware		✓
LTE Hotspot	✓	✓
Backend licence fees	✓	✓
Service calls		✓

Smart electrification

The benefits of a modular and centralised charging infrastructure

When electrifying large car parks, it is important to take the available grid capacity into account. Not only is dynamic load management essential, but so too is choosing the right charging power. In the following example, we outline a smart electrification concept for corporate car parks:

9 visitor parking spaces

smallBOX + chargeCLUSTER M

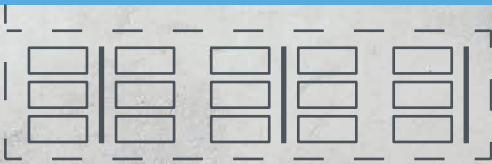
Ø Parking duration 1–2 hrs Ø load per vehicle 11 - 44 kWh



15 Fleet parking spaces

smallBOX + chargeCLUSTER M

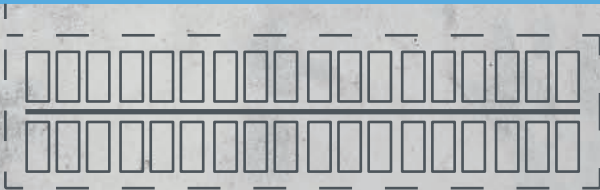
Ø Parking duration 3–4 hrs Ø load per vehicle 33 - 88 kWh



36 employee parking space

smallBOX + chargeCLUSTER L

Ø Parking duration 7.5 hrs Ø load per vehicle 50 kWh



The stated values are based on evaluations from over 200,000 charging processes with chargeBIG charging infrastructure.



Companies & fleets

Centralized charging infrastructure

Smart electrification with the smallBOX

Employee, fleet and visitor charging

The key to electrifying large parking lots lies in a centralized approach. All components requiring maintenance are consolidated in the chargeCLUSTER sub-distribution unit, minimizing space loss in the parking lot. In this way, chargeBIG enables scalable and intelligent charging infrastructure for professional applications.

smallBOX - compact and smart



- Fixed charging cable with Type 2 connector
- Slim design to save space in parking lots
- Lower costs in the event of damage or vandalism thanks to a centralized approach

Sub-distribution compliant with calibration law

- Integrated load management
- Compatible with standard interfaces
- Integration with security and building management systems
- Centralized system components make it particularly easy to maintain
- Billing compliant with calibration regulations for various user groups (e.g., company car drivers)



Various financing models

chargeBIG offers a variety of financing models that can be flexibly tailored to the individual needs and budgets of our customers. Choose between leasing, financing, or rent-to-own, depending on your needs. This allows us to provide a cost-effective way to get started with charging infrastructure.



Commercial real estate

Parking garages and underground parking garages

The smart way to electrify

Ideal for large parking lots and parking garages

The smallBOX charging system offers a compact, robust, and scalable solution for the electrification of large parking lots and parking garages. Thanks to its modular components, installation is particularly quick, while metrology-compliant billing ensures smooth public operation. This makes the smallBOX ideal for operators who need a future-proof and cost-effective charging infrastructure for high vehicle volumes.

Flexible charging solutions for optimal planning



- Easy integration into tight and complex existing garages as well as new construction
- Minimal protrusions thanks to compact design
- Lower costs in the event of damage and vandalism thanks to a centralized approach
- Pre-installation in accordance with GEIG/EPBD is possible

Preconfigured sub-distribution

- Integrated load management
- Compatible with standard interfaces
- Integration into building management systems
- Centralized system components make maintenance particularly easy
- Recalibration possible without dismantling the charging infrastructure
- Nationwide support and dedicated contact persons



Cross-site monitoring

The chargeBIG Dashboard provides you with comprehensive insights into the usage data of the charging infrastructure.

The dashboard allows you to manage charging sessions and rates, as well as generate detailed reports.





Cities & Municipalities

Charging infrastructure compliant with calibration law for public billing

Sustainable and intelligent charging solutions

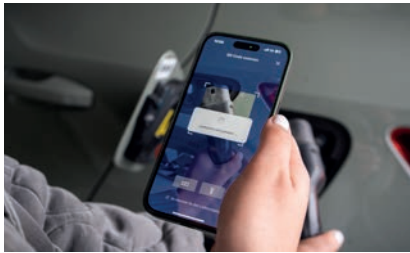
Applications

For municipalities and cities, the chargeBIG charging infrastructure is particularly well-suited for public locations with large parking areas, such as Park & Ride lots or parking garages.

Thanks to its intelligent load balancing and scalable architecture, the system is ideally suited to reliably and cost-effectively provide charging points for high volumes of vehicles.



Public accounting



chargeBIG complies with metrology regulations, which means that charging costs can be billed to third parties.

We offer the chargeBIG app (developed in-house) and the payment terminal (including a charging card) as billing options, as well as ad hoc payments via credit card and PayPal. Through eRoaming, chargeBIG charging infrastructure is listed in popular charging apps and can also be billed through them.

Electrification of Park & Ride parking lots

At the municipal parking lot at the Lorch train station, 28 parking spaces have been equipped with chargeBIG charging infrastructure.

chargeBIG handles the technical operations as well as billing for end users.

The charging stations can be easily and conveniently activated via an app, eRoaming, debit or credit card, or a charging card.



Utilizing GHG allowances as an advantage

GHG quota trading increases the share of renewable energies in the transport sector and describes the mandatory purchase of certified GHG quotas for distributors of fossil fuels. GHG quotas are in turn offered for sale on the market by operators of charging stations. The additional revenue from the GHG quotas and the federal funding for the installation of charging points contribute to the economic viability of municipal and urban projects.



Housing industry

Charging infrastructure for residential complexes and underground parking garages

Integration into the building infrastructure

Advantages compared to conventional wallboxes

With the smallBOX charging system, it is possible to react flexibly to the demand for charging points. Thanks to load management, it is possible to charge several vehicles in parallel without any problems, even if the grid capacity of the house connection is limited.

The smallBOX charging solution can be assigned to the power lines of the individual parties. Each party can therefore use its own charging tariff. There is no administrative effort and no central billing is necessary.



All-In-One solution

Thanks to intelligent load management, the system can prevent overloading of the house connection. In addition, the centralized structure of the system greatly reduces investment costs. Maintenance can also be carried out with less effort, as all components requiring maintenance are combined in the chargeCLUSTER systems.

Perfect for any interior design

Thanks to its compact design, the smallBOX formwork system is also suitable for challenging and confined construction environments. This applies to both pre-formwork and finished formwork in accordance with current GEIG regulations.



Are you interested?

Contact us for a customized and personalized quote for the perfect charging experience.

We look forward to hearing from you.



www.chargebig.com



Workshops & car dealerships

Smart and flexible charging infrastructure

The game changer for workshops

Intelligent charging infrastructure for garages and car dealerships

The centralized smallBOX AC charging system is ideal for charging at the lifting platform, in the showroom or in the parking lot. Thanks to various mounting options, the smallBOX is ideally suited for every application and installation location. Thanks to its compliance with calibration law, charging processes can be billed accurately and on a customer-specific basis. This means that energy costs can be invoiced directly with workshop orders.

Fast activation and billing



- Intelligent distribution of the available power with up to 22 kW per charging point
- Easy to use thanks to the permanently attached-type 2 charging cable and intuitive chargeBIG app
- Slim design for less loss of space in the parking lot

Easy integration into existing systems and infrastructure

- Compatible with third-party hardware and software
- Integration into security and building management
- Easy installation and maintenance thanks to centralized system components
- Recalibration possible without dismantling the charging infrastructure



The portable charging park

With the smallBOX PORTABLE, you can flexibly and easily decide on the location of the charging infrastructure. All you need is a 63 A supply cable to put the four charging points into operation, so no conventional installation is necessary.





Hotels

Suitable for any parking space size with a slim design

The bonus for guests

Arrive, plug in, check in.

After a long journey, not only should the stay in the hotel be comfortable and enjoyable, but also the use of the charging infrastructure on site. Here is just one small example:

The guest's trunk is still full of suitcases and the charging cable in the false floor is difficult to reach - no problem with the chargeBIG smallBOX, thanks to the permanently attached charging cable with type 2 plug. This is just one of the many advantages of the smallBOX charging system.

Elegant and slim design



- Intuitive and easy to use
- Less loss of space in the parking lot than with conventional wallbox solutions
- Lower costs in the event of damage and vandalism thanks to centralized approach

„All-Inclusive“ charging infrastructure

- Integrated dynamic load management
- Compatible with common interfaces
- Integration into security and building management
- Maintenance-friendly and cost-efficient thanks to centralized system components



Goody for guests?

With the chargeBIG terminal, guests can use the chargeCARD to conveniently and easily activate charging processes and pay by credit card or use charging cards from their preferred charging provider.





MAHLE

Vision of chargeBIG

Charging infrastructure for a sustainable future

Simply smart charging

Electric mobility is evolving rapidly and with it, the demand for smart, reliable, and scalable charging solutions. Many operators today face the challenge of deploying a large number of charging points in a way that is both cost-effective and beneficial to the grid. This is exactly where chargeBIG comes in, with an innovative infrastructure concept that sets new standards for efficient charging.

Centralized electrification

MAHLE chargeBIG's approach is to centrally consolidate the smart technology of the charging infrastructure into a single charging hub. This opens up entirely new possibilities for scalability. As a result, more charging points can be implemented at a single location than would be feasible with conventional charging solutions. Furthermore, the centralized intelligence leads to greater operational reliability, reduced maintenance requirements, and flexible adaptability to different usage scenarios.



Charging needs to be easy



MAHLE chargeBIG has a clear vision: to make e-mobility even easier. After all, what customers want most when it comes to their electric cars is one thing above all else—simple and convenient charging. The smallBOX charging system meets this exact need and helps make charging infrastructure more practical and accessible for everyday use. This concept opens up entirely new possibilities for operators of large parking areas, as well as for companies, municipalities, and commercial real estate, to build charging infrastructure economically and efficiently.

Join us in shaping the future of mobility.

Join the chargeBIG community. Benefit from high-quality products "Made in Germany," streamlined decision-making processes, and dedicated account managers.

Become a customer



Become a partner






chargeBIG ecosystem

A solution to suit every need



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