

Battery-buffered charging solutions

**Less Grid Expansion,
More Revenue.**



We Empower Your Business.

We believe that the energy supply of the future will be decentralised and flexible. Renewable energy will replace fossil fuels.

Our futureproof smart products put the energy transition within reach. Our customers are already electrifying their energy applications and using electricity when they need it, cost-effectively and off-grid.

In times of change, we offer solutions that are long-term, safe and profitable.

With our advanced battery storage and ultra-fast DC charging systems, we provide our customers in the energy and mobility sectors with a secure and reliable basis for their business models. Developed and manufactured in Germany, our integrated solutions offer more than meets the eye. With our reliable systems, we help our customers to increase their independence and secure their position during the energy transition.

2024

Sweden's largest battery storage system with > 20 MW

2022

Market launch of ChargePost

2021

Nasdaq listing

2018

Development of ChargeBox

2010

Foundation of ADS-TEC Energy

2007

First battery pack developed in house



The transformation of the energy system

Green energy: The future of our energy supply

Green electricity is generated by solar panels, wind turbines and hydroelectric power stations. But renewable energy sources are not always available. The sun only shines during the day, and the wind is irregular. This poses a challenge, especially when electric vehicles also require additional power. Another factor is that the energy system of tomorrow will be decentralised. Many small, distributed power plants will need to be intelligently controlled and coordinated.

Our solution: Battery-based energy storage and charging solutions.

This is where battery-based solutions from ADS-TEC Energy come into play. Our battery-based charging solutions are equipped and designed to meet the challenges of tomorrow. Our integrated solutions enable ultra-fast charging ab-

solutely anywhere, anytime. The expansion of ultra-fast charging infrastructure must be accelerated to drive the transition to green mobility. Unfortunately, the grid was not designed with eMobility in mind and as a result often requires slow and cost prohibitive upgrades to support ultra-fast charging. Our solutions circumvent this by storing energy from the available grid in batteries, then providing ultra-fast charging when needed. This allows an EV to add about 100km of range with just a 5 minute charge. Our technology enables ultra-fast charging without the costly grid upgrades and delays.

ADS-TEC Energy provides solutions that save both time and money. Our systems don't require grid expansion. This enables quick installation and reduces red tape. These are flexible, space-saving complete solutions comprising hardware, software and services for decades of operation.



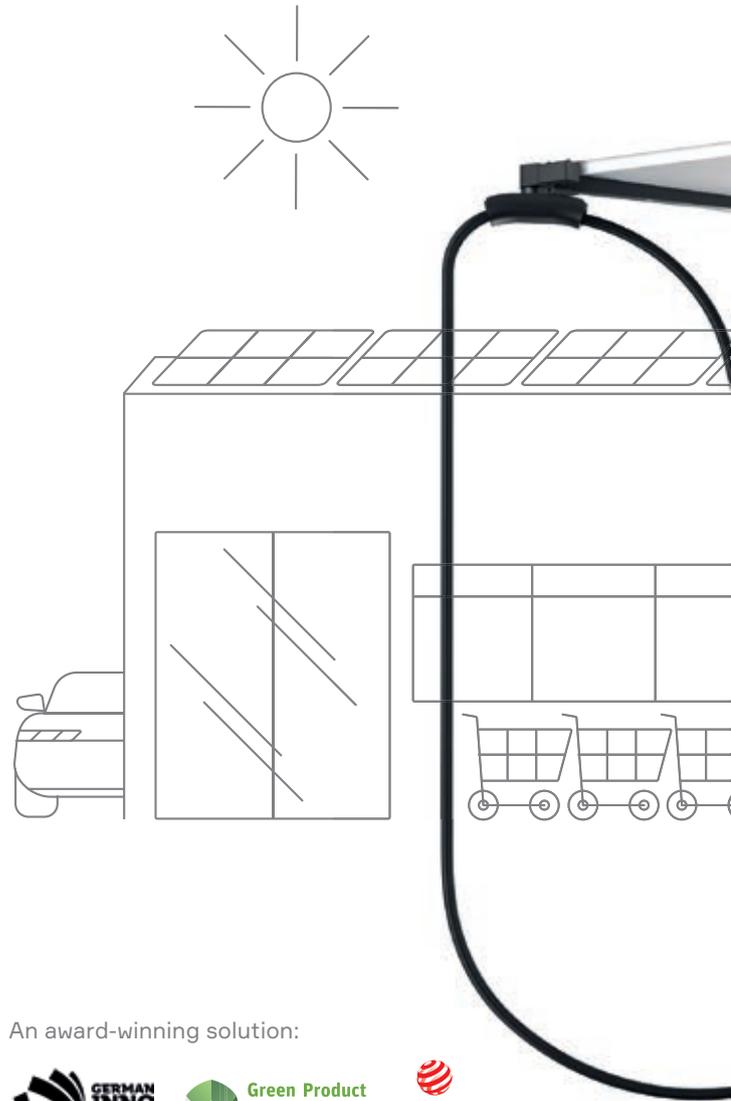
ChargePost

The all-in-one charging solution for the challenges of tomorrow.

ChargePost enables ultra-fast charging of electric vehicles from a low power, existing grid connection. The integrated battery storage system stores energy from the power-limited grid and delivers up to 300 kW of charging power, eliminating the need for an expensive grid expansion.

At night, or when not in use, the battery can be used for additional purposes or even fed back into the grid, further increasing sustainability and profitability. The bidirectional nature of the battery storage system means it can be used for peak shaving or to feed power back into the grid. Multiple ChargePosts can be linked together creating a virtual power plant for trading on the electricity market. Combining the ChargePost with local PV production further reduces energy costs and demand on the grid. Two large 4K screens provide space for advertising and information. This further improves site economics and usability of the ChargePost through additional revenue streams.

This innovation paves the way for electromobility and offers companies an attractive, versatile charging infrastructure.



An award-winning solution:



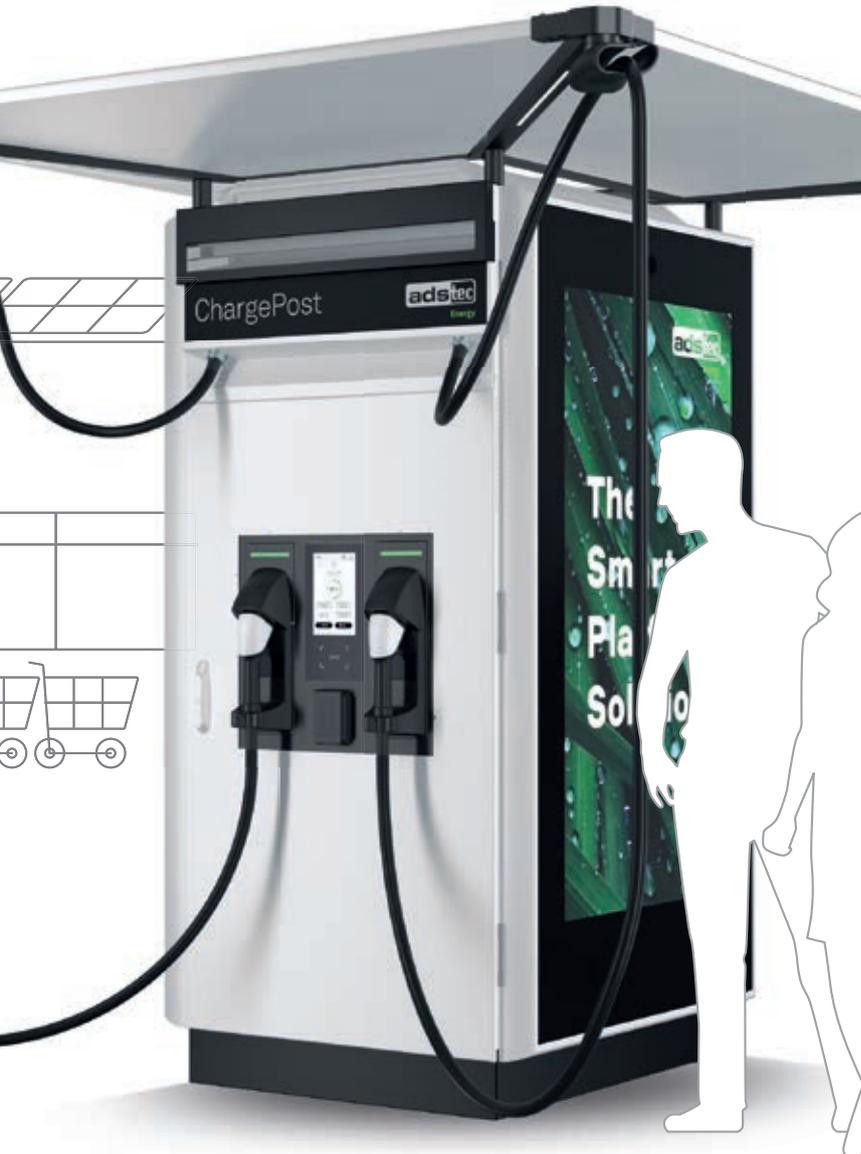
GERMAN
INNO
VATION
AWARD 24



Green Product
Award Winner 24
Mobility



reddot winner 2024
urban design



Up to **201 kWh**
of battery capacity.

Up to **300 kW**
or 2 x 150 kW
of ultra-fast charging.

75-inch
4K advertising displays.

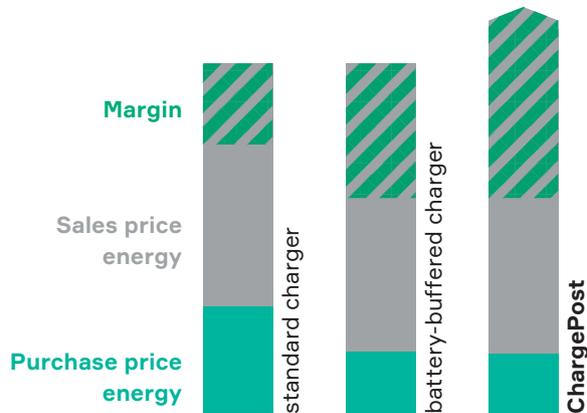
Ca. **5 min.**
of charging for over
100 km of driving.

What added value do battery-buffered charging solutions offer compared to other options?

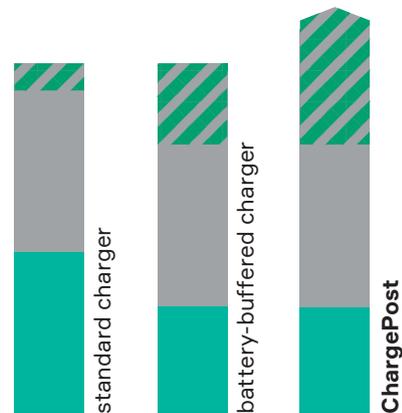
To make a valid assessment about the costs of a charging solution over its lifecycle, all investments need to be considered. This includes necessary expenses such as power grid expansion and substations. In addition, the operating costs such as demand charges for a high power grid connection need to be included in the overall cost assessment.

At the present, these demand charges intensively soar. Battery-based charging solutions such as the ADS-TEC Energy ChargePost are largely independent of those price increases. So this solution may prove to be more affordable over its entire life cycle than alternatives without integrated battery storage, while still providing the same ultra-fast charging experience. This ultimately results in a faster return on investment.

Comparison business case today

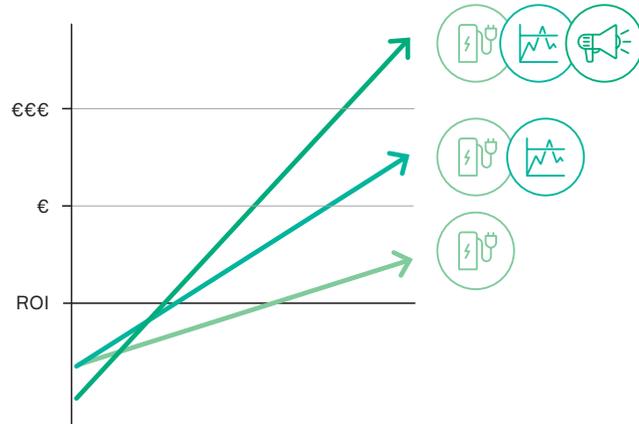


Comparison business case tomorrow



More than just EV charging

Our battery-buffered ultra-fast charging solutions is not only ideal for aligning your business model with electric vehicle (EV) charging. ChargePost also offers a host of complementary business opportunities. Even at locations where a high utilisation is not yet expected today, ChargePost introduces potential business models. There are benefits even for high-utilised charging points: return on investment (ROI) can be achieved faster than expected, making the site profitable sooner.



Arbitrage

ChargePost allows you to trade energy. You can even purchase energy when costs are low, or even negative, and store it in the battery storage system. Since electricity can be fed back into the grid, it can be traded on the electricity market.



Self-consumption optimisation

Use your renewable energy more efficiently: Store surplus solar energy in the integrated battery storage system and increase the share of renewable energy. Good for the environment and cost-effective operation.



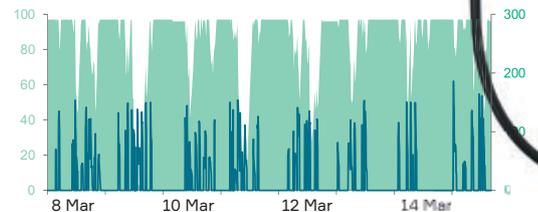
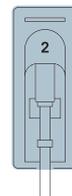
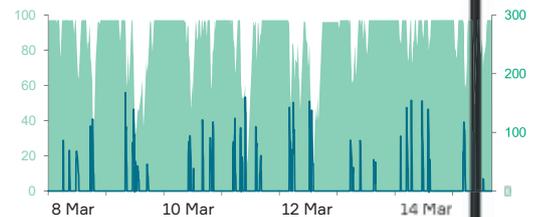
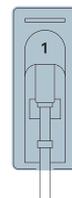
Advertising (DOOH)

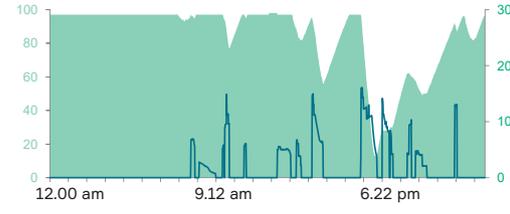
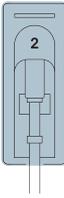
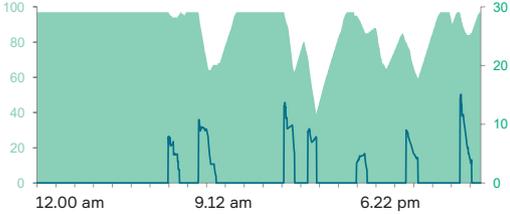
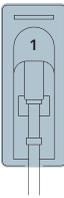
Our solution offers up to two 75-inch Ultra-HD screens to make the charging station even more profitable. Even in low-traffic locations, increase revenue and shorten your ROI by generating additional income through digital out of home advertising.



What happens in the battery storage system at high utilization charging points?

Our innovative storage technology enables ultra-fast charging of dozens of vehicles day in and day out. The storage system can operate continuously in all directions and even recharges itself while charging a vehicle. Thanks to our extensive field data and analyses, we can demonstrate that ultra-fast charging is possible at all times, even at high-traffic points.





Max. charging power: 169 kW

24 charging sessions

Input Power: 63 kVA

880 kWh charged

The charts show real-world data from a charging location equipped with an ADS-TEC Energy ChargePost. It show the charging curves of the electric vehicles and the state of charge of the battery storage system. The data includes charging sessions over a period of one week (see page 10) and a single day (see page 11).

State of charge Charging power



ChargePost

adstec
Energy

adstec

EV charging	Charging power	Two charging points with up to 1 x 300 kW or 2 x 150 kW simultaneously
	DC output voltage	150 – 920 V DC
	Max. charging current (output)	Max. 400 A
	Charging cable	Uncooled, CCS2 plug
	Cable management	Cable arms, optional roof (weather protection)
	Usable cable length	3 m or 5.5 m (with cable management)
Battery	Gross capacity and cell technology	Up to 201 kWh, lithium-ion
	Battery module weight	< 25 kg, easy to replace
Grid connection	Input voltage AC	400 V (+/- 10%)
	Input power	22 – 87 kW
	Connection	Fixed installation with terminals
Advertising display	Number of monitors	0, 1 or 2 monitors
	Size and resolution	75", 4K (2,160 x 3,840 px)
	Remote ad content upload	Yes, open platform for third-party CMS
	Night mode	Automatic adjustment of display brightness
User interface	HMI	1x10" HD touchscreen, sunlight-optimised
	RFID reader	Integrated into HMI
	Payment terminal	1 x credit/debit card reader with pin on glas; Contactless payment
Operation	Mode of operation	Consumer unit; consumer and generator unit
	Regenerative power	Up to 87 kW
General data	Dimensions (HxWxD)	2.4 x 1.3 x 1.5 m
	Weight	2.1 t* (excl. battery modules), approx. 3.2 tonnes* (incl. battery modules)
	Certification	IEC 61851-23/ISO 15118/DINspec70121
	Protection type and class	IP54; IK10/payment terminal IK8, HMI unit IK8.5
	Operating temperature range	-20°C to +40°C**
	Noise emission	Adjustable, optimised for urban environments
	Communication channels	Three separate communication channels (4G/LTE for back-end, monitoring and remote service, advertising)
	Backend protocol	OCPP 1.6J, OCPP 2.0.1 in development
	DC Meter	Integrated, each with viewing window Compliant with calibration regulations/MID

* Total weight depending on configuration. ** Depending on configuration
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Detailed data sheet →



optional roof and cable management



New: roof with cable management system



Ca. 5 minutes of charging for over 100 km of driving

up to **300 kW**

cable length 5.5 m or 3 m

← only 22–110 kW from grid re

7 – 19 kW



50 – 150 kW



adstec
Energy



ultra-fast

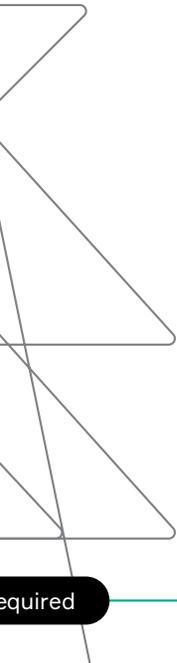




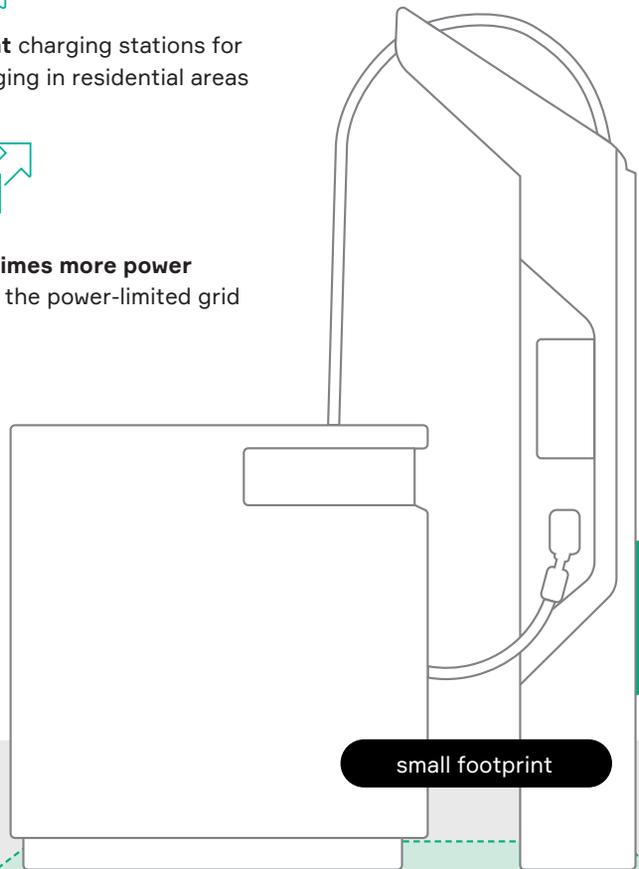
Silent charging stations for charging in residential areas



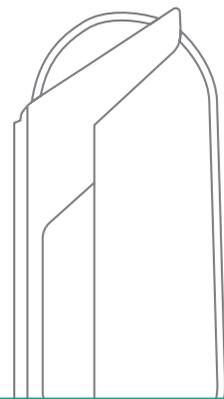
Six times more power from the power-limited grid



required →



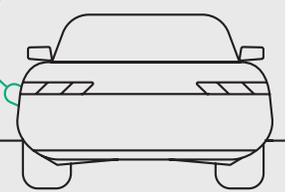
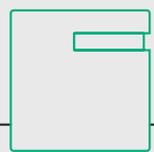
small footprint



up to
320 kW



up to 300 m

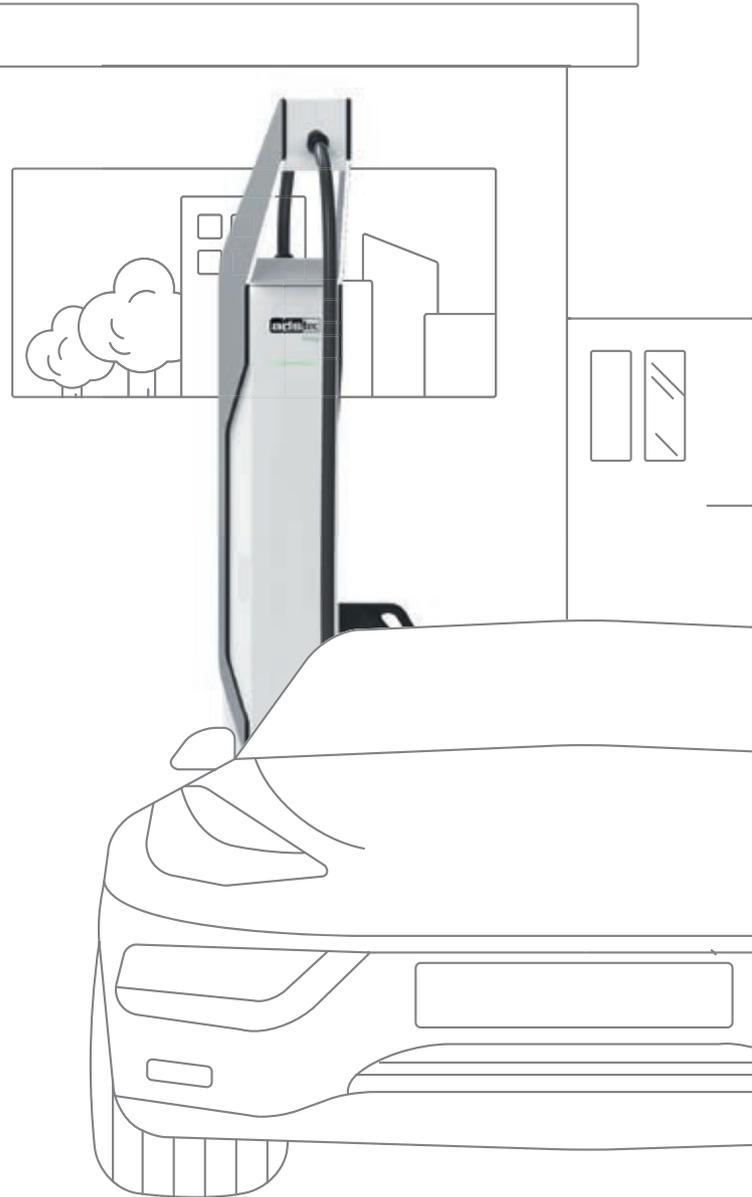


ChargeBox System

More flexible and futureproof

Our ChargeBox offers flexible installation options to ensure your charging projects are fast, efficient and affordable. With a charging power of up to 320 kW, the ChargeBox enables ultra-fast charging even on a power-limited grid, eliminating the need for an expensive and time-consuming grid expansion.

The modularity of charging station and battery storage system allows maximum flexibility in the placement of system components; the grid connection and charging point can be up to 300 metres apart. Compatible with voltage ranges from 150 to 920 V, the ChargeBox is a compact, efficient and futureproof charging solution that meets both present-day and future electromobility needs. Discover the ChargeBox and benefit from a flexible, powerful and futureproof solution for your charging infrastructure.





140 kWh
of battery capacity.

Up to 320 kW
or 2 x 160 kW
of ultra-fast charging.

1.6 m²
installation footprint.

Up to 300 m
between grid connection
and charging point.



EV charging	Charging power	Two charging points with up to 1x320 kW or 2x160 kW simultaneously
	DC output voltage	150 – 920 V DC
	Charging cable	Liquid-cooled, CCS2
	Usable cable length	3.8 m
Battery	Gross capacity and cell technology	Up to 140 kWh, lithium-ion
	Battery module weight	< 25 kg, easy to replace
Grid connection	Input voltage AC	400 V (+/- 10%)
	Input power	39 – 110 kVA
	Input current	Max. 186 A
Installation option	ChargeBox Booster	Outdoor use, up to 200 m from the grid connection
	Booster dimensions (L x W x H)	1.3 x 1.3 x 1.4 m plus foundation and underground cabling**
	ChargeBox Dispenser	Indoor and outdoor use, up to 100 m away from the ChargeBox Booster
	Dispenser dimensions (L x W x H)	0.4 x 0.4 m (footprint) x 2.7 m
User interface	HMI	1x10" HD touchscreen, sunlight-optimised
	RFID reader	Integrated into HMI
General data	Booster weight	2.8 t (incl. cooling medium and batteries)
	Dispenser weight	170 kg
	Certification	61851-23, ISO 15118, DIN 70121
	Protection type and class	Dispenser: IK9, IP55; Booster: IK8, IP54
	Operating temperature range	-30°C to 50°C
	Noise emission	Quiet charging with the Dispenser
	Back-end connection	Fibre-optic (FO) cable, 4G, Ethernet
	Back-end protocol	OCPP 1.6J
	Energy measurement	Integrated, one per charging point, each with viewing window Compliant with calibration regulations/MID

* Depending on grid connection power/vehicle voltage/vehicle charging curve

** Above-ground version approx. 0.6 m higher *** Subject to approval of local authorities

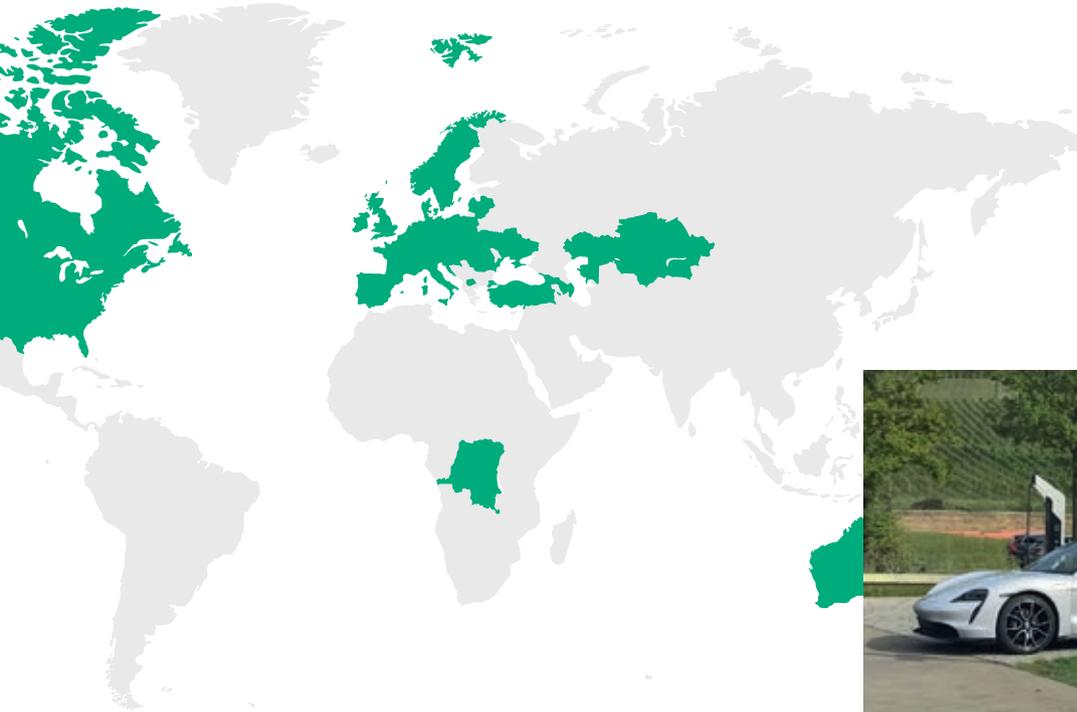
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Detailed data sheet →



References

Our ultra-fast charging solutions ChargeBox and ChargePost are used worldwide with over 2,500 charging points. Our customers include CPOs, OEMs, fleet operators and utility companies. They all wanted a futureproof, ultra-fast charging solution that would allow them to deploy and operationalize their systems in grid constrained locations as cost effectively as possible.





ServiceCrew

We Empower Your Products.

Our service team will support you with all matters relating to your ADS-TEC Energy charging and storage solutions. As a reliable partner, we'll be at your side from installation to maintaining of your system components. With our comprehensive service portfolio, we guarantee a high level of operational availability for your equipment. Our experienced and competent service team members work in a customer-focused and goal-oriented manner, allowing you to concentrate on your core business.

Contact our ServiceCrew

Please contact our team
if you have any service enquiries.



Phone: +49 (0)7022 2522 203
support.EST@ads-tec-energy.com
ads-tec-energy.com/service





Remote and on-site service

Our experts provide rapid remote diagnostics and on-site support for your storage and charging solutions. Qualified staff ensure stable operation of your systems through maintenance and rapid troubleshooting.



Service agreements

Efficient remote maintenance, comprehensive protection and guaranteed availability. High-quality spare parts availability ensures long-term functionality. Extend your warranty by up to seven years.



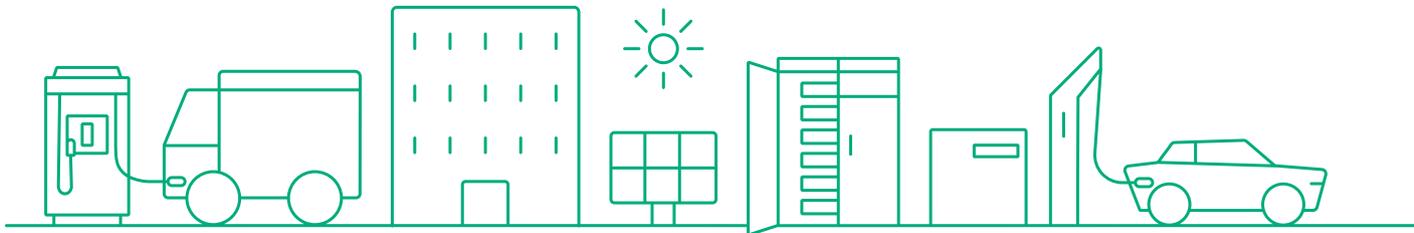
Training

Our customised training enables your team to troubleshoot, maximises equipment availability and provides immediately applicable expertise on operation, installation, commissioning, safety and maintenance.



Spare parts

Top quality and fast availability: ADS-TEC Energy delivers original spare parts for your equipment on time. You benefit from solution-oriented consulting, tailor-made packages and ultra-fast worldwide delivery.





We Empower.



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