LSK Green Group

LSK Green Group

With over 20 years of experience in energy consumption management, our team of experts is dedicated to delivering personalized energy solutions that meet the unique needs of our clients.

As a pioneering broker in community power sources, we are committed to sourcing renewable energy from our own and other sources.

At our core, we believe that by working together, we can build a more sustainable future.

LSK
GREEN ACQUISITION s. r. o.

LSK
GREEN DEVELOP s. r. o.

LSK
GREEN COMPONENT s. r. o.

LSK
GREEN ENERGY s. r. o.

LSK
PV s. r. o.

ADS-TEC Energy

ADS-TEC Energy develops and produces battery-based platform solutions for the energy industry of the future.

ADS-TEC Energy's systems are complemented with comprehensive services and secure remote access to all operational data, enabling long-lasting and long-term operation.

This way, ADS-TEC ensure that the future decentralized energy system in a CO2-neutral world is safe, efficient, and optimally deployed.

Together we drive the energy transition forward.

"The transformation to a climate-neutral energy economy is one of the greatest challenges of our time. In particular, tomorrow's energy system will be more electric, more digital and more decentralized. In addition, today's electricity, heat and mobility sectors will increasingly interact to compensate for volatility in renewable energy supply. This will require decentralized and intelligent energy platforms with integrated buffer storage in our real estate, industry and infrastructure. On the basis of these, we will enable future energy suppliers to control the complex interaction of producers and consumers.

Thomas Speidel,
Founder and CEO of ADS-TEC Energy,
in context of the Deutscher Zukunftspreis 2022.

adstec Energy × LSK Green Group
Powering the Future

LSK Green Group is the authorized representative of ADS-TEC Energy in the Czech Republic and Slovakia.

LSK Green Group

Charging Solutions

ChargeBox

ChargePost

Battery Storage

Indoor

Outdoor

adstec Energy

LSK Green Group

Charging solutions for the challenges of tomorrow.

Our charging solutions aren't just simple charging stations. They're platform solutions that help you make your business model sustainable and implement it cost-effectively – as quickly as possible.

The integrated battery storage is at the heart of our charging technology. This is made up of lots of individual battery modules that can be easily replaced and monitored down to cell level. That's how the ADS-TEC Energy solution focuses on longevity and sustainability.

How you benefit at a glance:

Integrated battery storage

Battery-buffered fast charging solution, ideal for use on power-limited grids

Maximum flexibility

Maximum power with a tiny footprint allows for flexible use almost anywhere

Flexible overall system

consisting of hardware, software and services with custom configuration

High charging capacity

Up to 320 kW charging capacity

Developed in Germany

State-of-the-art technology: made in Germany

Can be operated without the need for grid expansion

No need for transformer station or grid expansion – connects to existing 400-V grid

Use of renewable energy sources

Easy to integrate into existing systems with photovoltaic installations or renewable energies for charging with green electricity

Why is battery storage important for charging?

Battery storage enables ultra-fast charging at any location. Fast charging makes electric mobility more practical, which leads to greater acceptance in society. Driving this forward means expanding the fast-charging infrastructure rapidly. Ultra-fast charging points require fewer AC charging points, so the transition to green transport options can be achieved more easily with the faster expansion of the charging infrastructure.

Yet fast charging presents other challenges. Grids aren't always designed for such output. But that's where our products come into play. Both ChargeBox and ChargePost continuously store the energy available from the low-voltage grid. As soon as this energy is needed, it can be released ultra-fast, enabling charging with a range of up to 100 km in around 5 minutes.

Our technology enables ultra-fast charging even in places where this would not ordinarily be possible due to the available grid capacity.

Alternative to transformer stations and grid expansion

Costly and time-consuming grid expansion, including upgrading the necessary infrastructure (e.g. transformer stations), is usually required in order to make ultra-fast, high-capacity charging possible. It makes sense to question whether this undertaking is actually worth it. After all, the outlay involved in expanding the grid is high and the entire process can often take several months. It also means a high level of dependence on the local grid operator. This means that this solution isn't suitable for every location or every business model.

ADS-TEC Energy's solutions save you both time and money. Thanks to the integrated battery storage, grid expansion is not required. The system also offers additional sources of income and is very quick to install.
Our platform solutions include hardware, software and services as a comprehensive solution. They are designed to be space-saving and flexible – the minimum amount of innovative technology within the smallest possible space.

Our platform solutions are highly versatile. ChargeBox and ChargePost enable more profitable business models than just charging.

- Ultra-fast charging on power-limited grids
- Self-consumption optimisation
- Electricity trading with renewable energies
- Grid security and stability
- Appealing advertising space

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ChargeBox System

Ultra-fast charging on power-limited grids

LSK Green Group

ChargeBox System

Ultra-fast charging on power-limited grids

Nominated for the Deutscher Zukunftspreis (German Future Prize) 2022

ChargeBox Booster

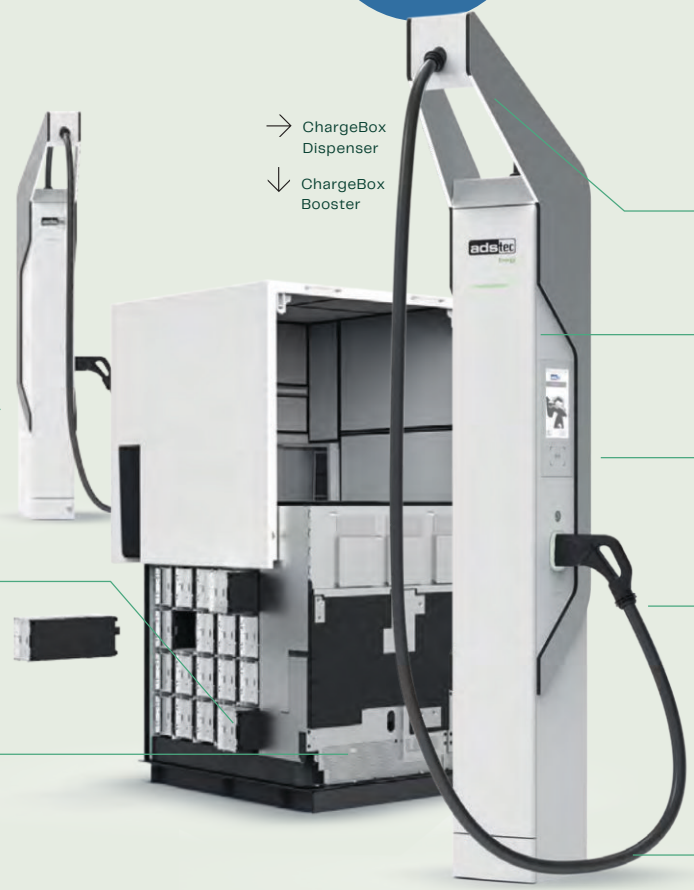
Power amplier

Developed in Germany and designed for high outputs, our compact power electronics and our battery modules with their high energy density form the core of the ChargeBox Booster.

With its future-proof high-voltage technology, the system is compatible with voltage ranges from 150 V to 920 V, making it suitable for future electric vehicles.

With a **footprint of just 1.6 m²**, the ChargeBox Booster requires just 15% of the area of comparable fast-charging systems with a connected medium-voltage installation.

Thanks to its flexible installation options, the ChargeBox Booster offers the utmost freedom even under tricky installation conditions. Above-ground installation means that the ultra-fast charging solution can be put into operation even faster, including in places where civil engineering work is not an option.



ChargeBox Dispenser

Charging station

In order to make ultra-fast charging as easy, convenient and safe as possible for operators and users, we left nothing to chance when it comes to our ChargeBox Dispenser.

High suspension point ensures easy access to the charging socket on the electric vehicle.

LED status display on the charging station is clearly visible from a distance and in the dark.

Sunlight-readable 10-inch touch screen ensures optimal readability even in direct sunlight.

CCS2 charging connector for maximum charging power of up to 320 kW.

Liquid-cooled charging cable ensures consistently high charging performance without overheating or derating.

Low-noise charging allows for installation in mixed-use and residential areas.

This system solution for battery-buffered ultra-fast charging offers the ultimate flexibility and is the most compact and efficient solution in its class.

up to 320 kW
charging capacity

6x
more power on power-limited grids

140 kWh
battery capacity

1.6 m²
installation footprint
(smallest system in its class)

up to 300 m
between grid connection and charging point

Noiseless
charging stations for charging in residential areas

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ChargeBox Booster

Power apmlier

Grid	Grid Configuration	TN-S with 3Ph + N + 1+PE (stationary)
	Frequency	50 Hz
	Inlet power	50–110 kVA
	Inlet voltage	346–415 V (+/- 10%)
	Inlet current	Max. 186 A
Battery system	Warranty	Up to 10-year Cell Performance Warranty on battery cells (in combination with Advanced Service contract and Bat-X)
	Cell chemistry	Lithium NMC
	Battery capacity	140 kWh
	Cooling	Air- and liquid-cooled
ChargeBox Booster	Vehicle charging power	2 x 160 kW/1 x 320 kW
	Electrical efficiency	Up to 96%*
	Target markets	EU (USA and Canada on request)
	Noise emissions	Low-noise charging
	L x W x H	1.3 x 1.3 x 1.4 m plus foundation and underground cabling**
	Weight (total)	2.8 t (incl. cooling medium and batteries)
	Installation options	Up to 200 m from the mains connection
	Outlet voltage	150–920 V DC (on the outlet side to the vehicle)
Communication interfaces	Back-end connection	Fibre-optic cable, 4G, Ethernet
	Protocol	OCPP 1.6J
Ambient conditions	Temperature range	-30°C to 50°C
	Installation options	Outdoors***
Standards/safety	Safety	Battery safety according to IEC 62619 Power converter safety according to EN 62477-1
	Conformity	CE, UL
	EMC	EN 61000-6-2; EN 61000-6-4
	Transport	UN 38.3 test for lithium batteries

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ChargeBox Booster

Charging station

Dimensions	L x W x H	0.4 x 0.4 m (floor area) x 2.7 m
	Weight	170 kg
System	Screen	Sunlight-optimised 10-inch HD touch screen
	Authentication	RFID
	Energy measurement	Optionally using calibrated DC energy meter
	Vandalism class	IK09
	Noise emissions	Noiseless, no discharge of cooling air
	Installation options	Indoors and outdoors, up to 100 m from ChargeBox Booster
Charging cable	Cooling	Liquid-cooled
	Plug type	CCS2 (USA and Canada on request)
	Functionality	Flexible cable for conveniently reaching the charging sockets on the vehicle
	Cable length	3.8 m without ground contact when plugged in

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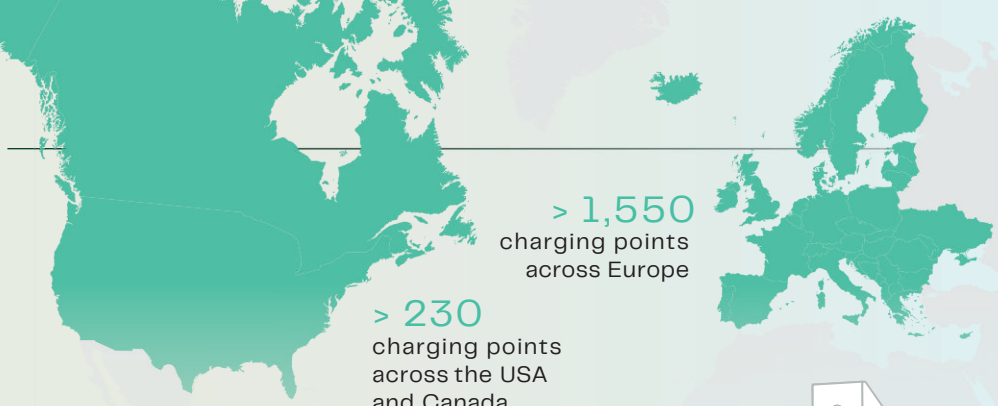


> 1,550
charging points
across Europe

> 230
charging points
across the USA
and Canada

ChargeBox has been installed at more than 500 sites within Europe and North America. Field proven, robust and highly reliable. Due to the integrated battery-buffer the Total Cost of Ownership is significantly lower. Use self generated green energy to optimize your business case.

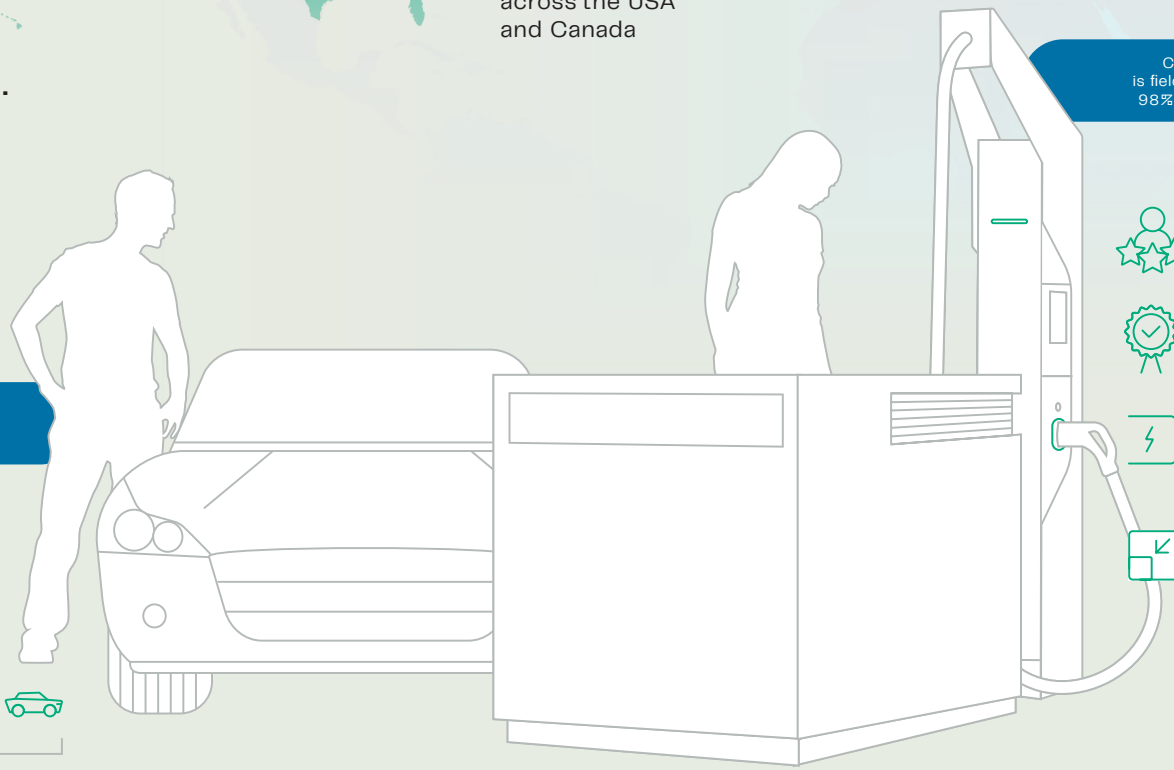
Only the best ultra-fast charging experience.

Make a future-proof investment.

ADS-TEC Energy ChargeBox with up to 320 kW offers significant advantages over AC chargers and many standard DC chargers. It charges EVs in minutes, is versatile and highly efficient with advanced features such as cooling systems, making it a crucial component for the rapid adoption of electric vehicles.

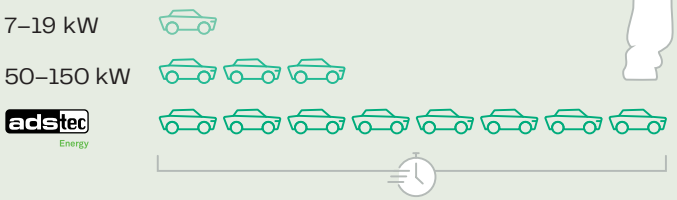
ChargeBox
is field proven with
98% availebility.

60 miles range
in approx. 5 minutes.

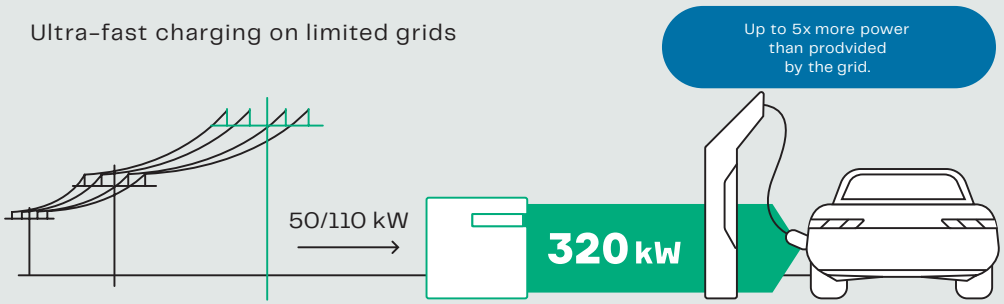


- Maximum customer satisfaction!
- Highest quality standards – engineered in Germany
- 140 kWh battery capacity
- 17 sq ft installation footprint (smallest system of its class)

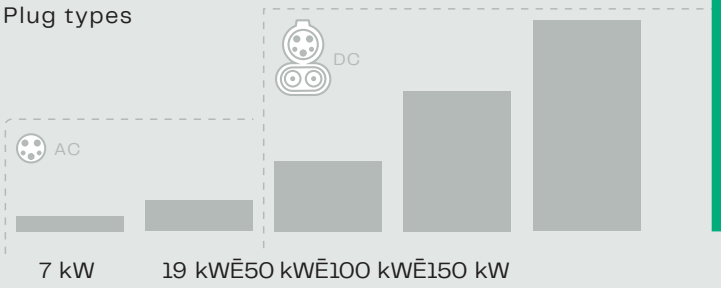
Increase the number of cars charged per hour!



Ultra-fast charging on limited grids



Plug types



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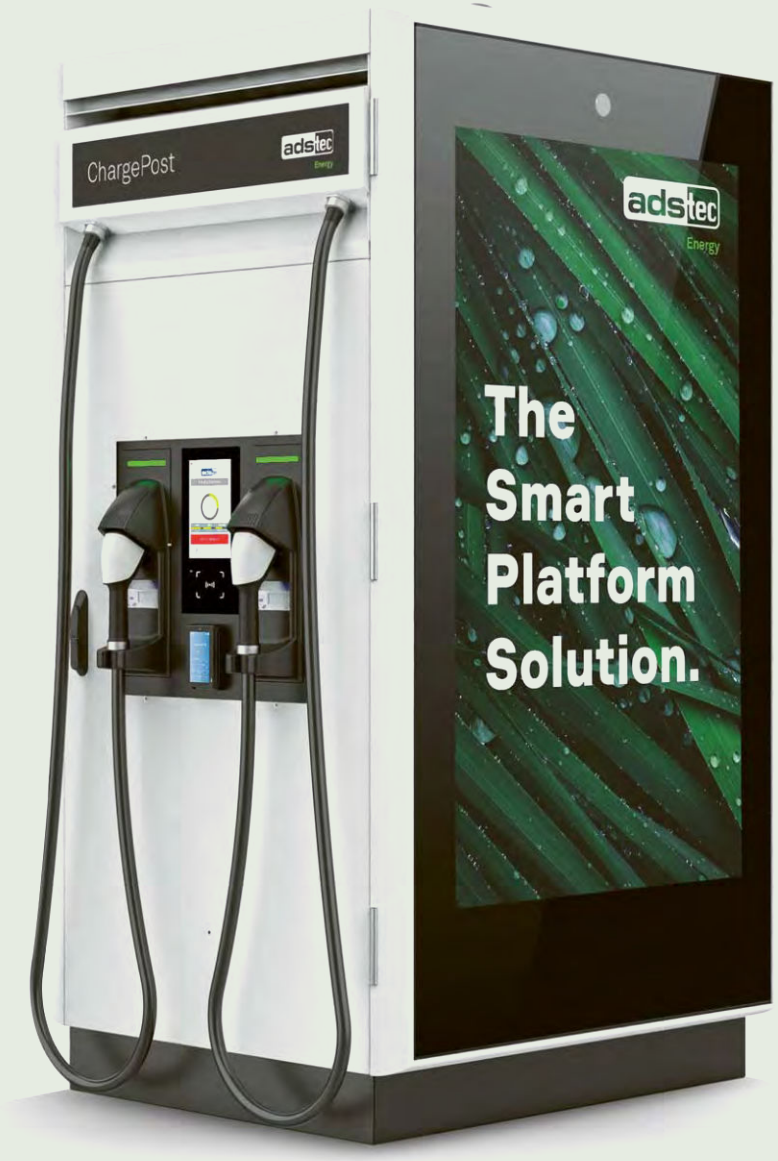
ChargePost

All-in-one charging solution



ChargePost

Today's all-in-one charging solution
for tomorrow's challenges.

ChargePost is setting new standards for ultra-fast charging solutions with pioneering technologies.

75-inch
advertising displays for ULTRA-HD advertising content

up to 300 kW
charging capacity for one electric vehicle or 2x 150 kW if two vehicles are being charged at the same time

24/7
cost-optimised operation with smart buffer storage

5 minutes
charging for over 100 km travel distance

ChargePost

All-in-one charging station

Smart, innovative and custom-designed: ChargePost enables HPC charging within minutes on power-limited grids – taking ultra-fast charging to a new level with best-in-class technologies.

Modular system: battery modules can be replaced individually for quick and convenient upkeep.

Air conditioning for battery cooling, power electronics and advertising display.

Innovative lighting system for displaying the system status.

Sunlight-optimised 10-inch touch screen for easy, intuitive operation.

Integrated contactless credit and debit card reader enables convenient payment.

CCS2 charging cable (minimum 3 m, uncooled) for convenient use.

Powder-coated sheet steel ensures high resistance to weathering.

Full-HD image sensor for smart security monitoring.

Maximum security for your system and data with in-house IT and firewall.

CE-certified in accordance with protection class IP54.

DC meter for energy measurement and billing in compliance with weights and measures regulations.

75-inch displays with ultra-HD resolution and smart energy-saving modes for displaying custom advertising content.

Outdoor displays with high brightness, protection against vandalism, and UV filter.

Large lockable doors allow easy access for maintenance work.

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ChargePost

All-in-one charging solution

Product variants		ChargePost
Electronics	Charging power	Up to 300 kW or 2 x 150 kW
	Output voltage DC	150 – 920 VDC
	Max. charge current (output)	Max. 400 A
Battery	Gross capacity	143.6 kWh or 201 kWh
	Cell technology	Lithium-ion
Installations	Operation parallel to the grid	Yes
	Secured charging cable	Yes, fixed installations with connection terminals
Grid connection	Power supply form	3-phase + N + PE
	Power supply system	TN-S
	Power supply frequency	50 Hz
	Input voltage AC	400 V (+/- 10 %)
	Input power	39 – 86.6 kW
	EMC	Class A according to EN 61000-6-4
Mechanical data	Color	RAL 9003, signal white
	Air conditioning	For the cooling of the batteries, inverter and advertising displays; Air and liquid cooling
	Housing material	Sheet steel
Advertising display	Size	75 "
	Resolution	4K: 2160 x 3840 px
	Number of monitors	0, 1 or 2 displays
	Remote upload of advertising content	Yes, the customer's content client
	Lifetime	1,500 cd/m² brightness after 50,000 operating hours
	Night mode	Automatic reduction in brightness of the display depending on the measured brightness of the environment
	UV resistance	Yes, test standard: EN ISO 4892-1/-2; test class: A (artificial weathering)
User interface	Human-machine interface	1 x 10-inch HD touchscreen, sunlight optimized
	RFID reader	HMI integrated
	Payment terminal	1 x Credit and debit card reader with PIN pad for contactless payment
Service & operation	Access	Maintenance door(s), lockable
	Operation	Continuous operation at one location
	Project specific features	Bidirectionality; advanced communication interfaces
General data	Dimensions (L x W x H)[1]	1.3 x 1.5 m (floor space) x 2.4 m
	Weight without battery modules	2.1 t*
	Weight with battery modules	3.2 t*
	Weight Battery module	< 25 kg
	Certification	CE
	Degree of protection	IP54
	Protection class	IK10/ Payment terminal IK8, HMI unit IK8.5
	Operating temperature range	-20 °C to +40 °C**
	Communication channels	3 separate communication channels
	Communication	Mobile data (4G/LTE), Ethernet RJ45 10/100 Mbit/s
	Backend protocol	OCPP1.6J
	Charging cables	Uncooled, external, bracket for plug
	Usable cable length	3 m
	Charging plug (vehicle interface)	CCS2
	DC electricity meters	Integrated, one per charging point, each with viewing window
		Compliant with Eichrecht/MID
	Noise emissions	For urban use

* Total weight depends on the configuration.
** Depending on configuration

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adstec Energy

PowerBooster

Outdoor battery storage

PowerBooster

Battery-based platform solution for outdoor use.

GSS0813

The Grid Service Station is developed and manufactured in Germany for long-term use.

Full control through the intelligent energy management system (EMS). The system developed by ADS-TEC Energy monitors and manages the PowerBooster battery storage system. If desired, this can also be easily replaced in order to integrate the PowerBooster into the customer's monitoring and/or control systems.

Controller for monitoring the battery string.

Compact system with integrated inverter. No additional attachments necessary – simplified planning.

Plug and Play – All elements relevant for operation, such as the battery modules or the inverter, are mounted and wired in the plant. This means that the turnkey solution can be delivered directly to the site of operation and put into operation without much effort.

Battery modules monitored down to cell level.

Scalable – up to 8 PowerBooster can be connected.

Low-pitch roof ensures effective rainwater drainage.

The integrated air conditioning system for optimal operating conditions to achieve high efficiency and maximum service life.

Steel housing according to IK10. Certified for maximum resistance against weather and vandalism.

adstec Energy

75 kW
Max. effective power

128.7 kWh
Battery capacity

Complete system
with integrated inverter and HVAC

Optimised for installation
outdoors

PowerBooster

Battery storage

GSS0813

System	System type	AC-coupled storage system in outdoor cabinet
	Actuation/functions	ADS-TEC Energy apps: peak shaving, self-consumption optimisation, charging station load management/ADS-TEC master interface Options: → Backup power supply → PV power reduction via SolarLog
	Network connection	Ethernet, RJ45, LTE
	Inverter	Integrated
Grid	Max. discharging power	75 kW
	Max. charging power	50 kW
	Apparent power	75 kVA
	Grid voltage	400 VAC
	Configuration	TN-S with 3Ph + N + PE (stationary)
	Frequency	50Hz
Battery storage	Nominal energy content	128.7 kWh
	Cell chemistry	Lithium NMC
	Usable energy content	111.6 kWh
General data	Installation option	Outdoors
	Temperature range	-20°C to +40°C
	Protection class	IP55
	Warranty	Up to 10-year Cell Performance Warranty on battery cells (in combination with Advanced Service contract and Bat-X)
	Break-in protection	RC2
	Vandalism class	IK10
	Dimensions W x H x D	Approx. 1,430 x 2,500 x 940 mm
	Weight	Approx. 1,400 kg incl. battery modules

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adstec Energy

StorageRackSystem

Indoor battery storage

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StorageRackSystem

Battery-based platform solution
for indoor use.

SRS2543

Our SRS – Storage Rack System is – a compact indoor battery storage system with our trademark of the + and – symbols. A complete system with integrated inverter that can be used in many ways and offers a solution for every requirement.

For indoor use with IP20and perforated door.

Powder coated steel plate provides high quality and durability.

Controller for monitoringthe battery string.

Modular system: battery modulescan be replaced individually for convenient and quick maintenance.

CE certified according to protection class IP54

adstec
Energy

25 kW
Effective power

42.9 kWh
Battery capacity

Complete system
with integrated inverter

Optimised for installation
indoors

StorageRack System

Battery storage

SRS2543

System	System type	AC-coupled storage system in indoor cabinet
	Actuation/functions	ADS-TEC Energy apps: peak shaving, self-consumption optimisation charging station load management/ADS-TEC master interface Options: → Backup power supply → PV power limitation via SolarLog
	Network connection	Ethernet, RJ45
	Inverter	Integrated
Grid	Max. discharging power	25kW
	Max. charging power	18kW
	Apparent power	25kVA
	Grid voltage	400VAC
	Configuration	TN-S with 3Ph + N + PE (stationary)
	Frequency	50Hz
Battery storage	Nominal energy content	42,9 kWh
	Cell chemistry	Lithium NMC
	Usable energy content	37,2kWh
General data	Installation option	Indoors
	Temperature range	10°C to 25°C
	Protection class	IP20
	Warranty	Up to 10-year Cell Performance Warranty on battery cells (in combination with Advanced Service contract and Bat-X)
	Dimensions W x H x D	Approx. 610 x 1.720 x 880mm
	Weight	Approx. 500kg incl. battery modules

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adstec Energy

Reference

ADS-TEC Energy

ChargeBox for Iberdrolain Spain happy change to a zero emission electric world at McDonald's in Alicante.

One of Europe's largest energy providers relies on ADS-TEC Energy's charging technology in its transition to a CO2 neutral world. The first 15 systems were purchased in 2021 and two stations went intooperation the same year (in Alicante and Valencia)

Porsche, Paris

Porsche, Stockholm

Porsche, Hegau

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Energy

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Energy

eFantom from
Frauscher and Porsche
at Lake Garda

PowerBooster

Storage Power Plant
Allgäu Grid Services
in Sonthofen

PowerBooster in France (in Douges near the Belgian border) GSS2824 for fast charging and peak shaving at gas stations.

Under the brand “V-Gas”, Proviridis builds intelligent multi energy filling stations with CNG, LNG and electricity for fast charging.

In combination with its own PV and storage system, a cost-efficient power supply for Supercharger (2x150kW) can be guaranteed.

adstec
Energy

Bosch Reutlingen

ChargeTrailer, Porsche

adstec
Energy


adstec
Energy
2.1
MWh
ON WHEELS
PORSCHE
TURBO
CHARGING
MOBILE CHARGING UNIT
S PE 1442E
S PE 1680E
S PE 1534E
S PE 1721E

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