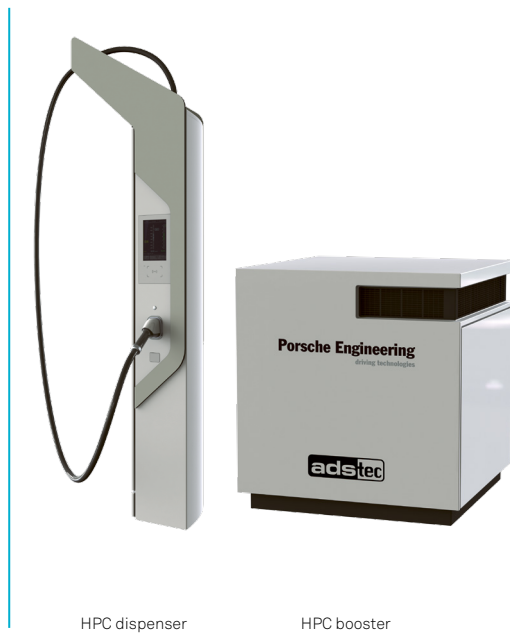


High Power Charging 320 kW charging capacity on limited-power distribution grid



StoraXe® charging technology in a new dimension **HPC booster and HPC dispenser**

A charging capacity of up to 320 kW for e-vehicles, without intervention in the limited distribution grid – this is provided by the new HPC booster with HPC dispenser as a storage-based fast-charging system. Connection of one to two charging stations with 160 or 320 kW capacity.



HPC dispenser

HPC booster

HIGHLIGHTS

- **Maximum performance with a DC charging capacity of up to 320 kW, can be distributed between 1 or 2 dispensers**
- **Outdoor installation directly at the limited-power distribution grid**
- **Extremely compact design as a complete system**
- **Easy transport / fast IT integration**
- **Distributed system for easy on-site installation**

StoraXe® HPC booster **Energy storage and energy conversion**

- Designed for all voltage levels of on-board traction power systems – downward compatibility for existing e-vehicles from 200 V as well as future-proof compatibility for upcoming vehicles up to 920 V
- Integrated inverter, climate control, energy management unit, security / firewall and communication unit via mobile radio
- Direct AC connection to distribution grids at 400 V level

StoraXe® HPC dispenser **Fast-charging station for e-vehicles**

- Up to 320 kW charging capacity per dispenser
- Low-noise charging – also ideal for residential areas
- Charging socket positions easily reached thanks to high attachment point of the cable
- Liquid-cooled charging cable
- Suitable for plug types CCS1, CCS2, CHAdeMO and GB/T
- Integrated 10-inch touch-screen as user interface
- Optional: Energy measurement by means of calibrated DC meter

StoraXe® energy storage systems **“Technology for Professionals” Made in Germany**

- Lithium-ion technology for a specified life cycle of up to 20 years
- Selected cells with minimum ageing effects from renowned manufacturers
- Dedicated tool for cell monitoring over the entire life cycle
- Satisfy current standards and certifications

Big-LinX® Energy **ADS-TEC cloud solution for monitoring/control from any location**

- IoT service platform Big-LinX for worldwide access to all energy storage systems
- Administration and management (control and battery monitoring)
- “State of the art” security with software and hardware certificates (smart card)
- OSGi™ platform for programme extensions
- Interfaces to SCADA and HOST systems
- OCPP (Open Charge Point Protocol)

adstec

Energy Storage

HPC booster and HPC dispenser

Technical data

HPC booster

Grid	Grid type	1 or 3-phase
	Grid frequency	50 Hz / 60 Hz
	Grid input power	20 to 110 kW
	Grid input voltage	200 – 480 V
Battery system	Battery performance warranty	10 years (technically designed for 20 years) Monitored and adjustable via back-end
	Cell chemistry	Lithium-ion
	Battery capacity	140 kWh with fully equipped version
	Cooling	Air and liquid-cooled
	Recharge time	3 h at 50 kW grid power
HPC booster	Vehicle charging capacity	1x 160 kW / 2x 160 kW / 1x 320 kW
	Efficiency factor	> 90 %
	Target markets	Worldwide
	Noise emissions	Low-noise charging, also suitable for installation in residential areas
	L x W x H	1.2 x 1.2 x 1.3 m plus base and underground cabling
	Weight	1.8 t
	Installation option	200 m from grid connection, max. 100 m from dispenser
	Bidirectionality	Yes
	Output voltage	200 - 920 V DC on the output side of the vehicle
Communication interfaces	Back-end connection	Mobile radio communication / DSL
	Protocol	OCPP or customer specific
Environmental conditions	Temperature range	-30° C to 60° C
	Installation option	Indoor and outdoor area*
Standards/safety	Safety	Functional safety acc. to IEC61508
	Certification	Depending on region e.g., UL, CE, CCC
	EMC	EN 61000-6-2; EN 61000-6-4
	Transport	UN38.3 Transport directive for lithium batteries

HPC dispenser

Dimensions	L x W x H	Floor space 0.4 x 0.4 m, height 2.7 m
	Weight	170 kg
System	Screen	10-inch sunlight readable touch-screen
	Authentication	ISO15118 Plug&Charge, RFID
	Energy measurement	Optional by means of calibrated DC energy meter
	Vandalism class	RC2
	Noise emissions	Silent, no cooling air outlet
Charging cable	Cooling	Liquid-cooled (CCS1, CCS2 only)
	Plug type	CCS1, CCS2, CHAdeMo, GB/T
	Functionality	Flexible cable for easy access to charging sockets on the vehicle Cable length 3.8 m Cable not in contact with ground when plugged in

Overall system	Availability	Q4 2018
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Energy Storage

