

# 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.

### HIGHLIGHTS

- Up to 320 kW DC charging power per dispenser or 160 kW each
- 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
- Accredited certification to the latest charging norm IEC 61851-1:2017



HPC dispenser

HPC booster

### 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)

### 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 150 V as well as future-proof compatibility for upcoming vehicles up to 920 V
- Integrated PCS (Power Conversion System), 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 HD 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

# HPC booster and HPC dispenser

## Technical data

### HPC booster

<b>Grid</b>	Grid type	3-phase
	Grid frequency	50 Hz / 60 Hz
	Grid input power	20 to 110 kW
	Grid input voltage	200 - 480 V
	Galvanic isolation AC	Yes
<b>Battery system</b>	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
<b>HPC booster</b>	Vehicle charging capacity	1x 160 kW / 2x 160 kW / 1x 320 kW
	Efficiency factor	90 - 98 % (depending on charging parameters)
	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 (total)	2.8 t (including cooling medium and batteries)
	Weight (transport)	1.8 t
	Installation option	200 m from grid connection, max. 100 m from dispenser
	Bidirectionality	Yes
Output voltage	150 - 920 V DC (on the output side of the vehicle)	
<b>Communication interfaces</b>	Back-end connection	Mobile radio communication / DSL
	Protocol	OCPP or customer specific
<b>Environmental conditions</b>	Temperature range	-30° C to 60° C
	Installation option	Outdoor * (recommended) or indoor
<b>Standards/safety</b>	Safety	Functional safety acc. to IEC61508
	Certification	Depending on region e.g., UL, CE, UL2022
	EMC	EN 61000-6-2; EN 61000-6-4
	Transport	UN 38.3 Transport directive for lithium batteries

### HPC dispenser

<b>Dimensions</b>	L x W x H	Floor space 0.4 x 0.4 m, height 2.7 m
	Weight	170 kg
<b>System</b>	Screen	10-inch sunlight readable HD 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
<b>Charging cable</b>	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

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\* depending on approval by local authorities

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