

Ultra-fast charging 320 kW charging capacity in the power-limited distribution grid



Charging technology in a new dimension **ChargeBox system**

A charging capacity of up to 320 kW for e-vehicles, without extension of the limited distribution grid – this is provided by the ChargeBox with Booster and 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 ChargeBox Dispenser or 160 kW each
- Outdoor installation directly at the power-limited distribution grid
- Extremely compact design as a complete system
- Easy transport, fast IT integration
- Distributed system for easy on-site installation
- Tested for the use in accordance with the latest charging norm IEC 61851-1:2017
- TÜV-certified safety for installation in public domain



ChargeBox Dispenser

ChargeBox Booster

ChargeBox Booster **Battery 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 mobile radio or ethernet
- Direct AC connection to distribution grids at 400 V level
- OCPP 1.6 (Open Charge Point Protocol)
- Optional: can be installed above ground

ChargeBox Dispenser **Ultra-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
- CCS1 charging plug
- Integrated 10-inch HD touch screen as user interface
- Indoor and outdoor installation possible
- Optional: Energy measurement by means of calibrated DC meter

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)

Battery storage systems **“Technology for Professionals” Made in Germany**

- Selected cells with minimum ageing effects from renowned manufacturers
- Dedicated tool for cell monitoring over the entire life cycle
- Compliant with current standards and certifications

ChargeBox system

Technical data

ChargeBox Booster (Power amplifier)

Grid	Grid type	3-phase
	Grid frequency	60 Hz
	Grid input power	110 kVA
	Grid input voltage	480 V (+/- 10%)
	Grid input current	max. 160 A
Battery system	Battery performance warranty	up to 10 years*
	Cell chemistry	Lithium-ion
	Battery capacity	140 kWh
	Cooling	Air and liquid-cooled
ChargeBox Booster	Vehicle charging power	2x 160 kW / 1x 320 kW
	Electrical efficiency factor	95 % at nominal output power during charging process**
	Target markets	US - CAN***
	Noise emissions	Low-noise charging
	L x W x H	1.4 x 1.4 x 1.5 yd plus base and underground cabling****
	Weight (total)	3.1 tn. sh. (including cooling medium and batteries)
	Installation option	max. 109 yd from dispenser
	Output voltage	150 - 920 V DC (on the output side of the vehicle)
Communication interfaces	Back-end connection	Fiber optic cable, 4G, Ethernet
	Protocol	OCPP 1.6
Environmental conditions	Temperature range	-22 °F to 122 °F
	Installation option	Outdoor *****
Standards/safety	Safety	Battery safety acc. to IEC 62619 and UL 1973
	Conformity	UL, CE
	EMC	FCC part 15B
	Transport	UN 38.3 test directive for lithium batterie

ChargeBox Dispenser (Fast charging station)

Dimensions	L x W x H	0.44 x 0.44 yd (floor space) x 2.95 yd
	Weight	375 lbs
System	Screen	10-inch sunlight readable HD touch screen
	Authentication	RFID
	Energy measurement	Optional by means of calibrated DC energy meter
	Vandalism class	IK09
	Noise emissions	Silent, no cooling air outlet
	Installation options	Indoor and outdoor
Charging cable	Cooling	Liquid-cooled
	Plug type	CCS1***
	Functionality	Flexible cable for easy access to charging sockets on the vehicle
	Cable length	4.15 yd, cable not in contact with ground when plugged in

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* defined warranty within a service contract
 ** without auxiliary consumers
 *** also available in Europe with CCS2
 **** above ground variant approx. 0.65 yd higher
 ***** depending on approval by local authorities

