

ChargeBox System

Ultra-fast charging
on power-limited grids

Nominated for the
**Deutscher
Zukunftspreis
2022**

(German Future Prize)

2 x ChargeBox **Dispenser** →



↑ ChargeBox **Booster**



EV charging

Quickly implement ultra-fast charging solutions on power-limited grids.



Monitoring at the cell level

Sustainable use of the batteries for long-lasting operation.



Self-consumption*

Use renewable energy more efficiently.



Peak shaving*

Significantly reduce energy costs through the offset of peaks by EV charging.

*with external Energy Management System (EMS)

Up to 320 kW
charging power

5 x
more charging power on
power-limited grids

140 kWh
battery capacity

17 sq ft
footprint
(the smallest system of its class)

Up to 980 ft
between **grid connection**
and **charging point**

Noiseless
charging dispenser for
charging in urban areas

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Data sheet ChargeBox system US-EN 10-2023.

ChargeBox Booster

Power amplifier



Energy

Grid	Type	TN-S with 3Ph + N + PE (stationary)
	Frequency	60 Hz
	Input power	50 kVA/110 kVA
	Input voltage	480 V (+/- 10%)
	Input current	Max. 160 A
Battery system	Performance Warranty	Up to 10-year Cell Performance Warranty on battery cells (in combination with Advanced Service contract)
	Cell chemistry	Lithium-ion
	Battery capacity	140 kWh
	Cooling	Air- and liquid-cooled
ChargeBox Booster	Vehicle charging power	Up to 1 x 320 kW/2 x 160 kW
	Electrical efficiency factor	Up to 96%* at nominal output power during charging process
	Target markets	US- CAN **
	Noise emissions	Low-noise charging
	L x W x H	4.2 x 4.2 x 4.5 ft plus installation and underground cabling***
	Weight (total)	3.1 tn. sh. (incl. cooling medium and batteries)
	Installation options	Max. 109 yd. from dispenser, max. 218 yd. from grid connection
	Output voltage	150–920 V DC (on the output side to 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	Outdoors****
Standards/safety	Safety	Battery safety according to IEC 62619 and UL 1973
	Conformity	CE, UL
	EMC	FCC part 15B
	Transport	UN 38.3 test directive for lithium batteries



ChargeBox Dispenser

Charging station

Dimensions	L x W x H	1.3 x 1.3 ft (floor space) x 8.9 ft
	Weight	375 lbs
System	Screen	10-inch sunlight readable HD touch screen
	Authentication	RFID
	Energy measurement	Calibrated DC energy meter (optional)
	Vandalism class	IK09
	Noise emissions	Silent, no cooling air outlet
	Installation options	Indoors and outdoors
Charging cable	Cooling	Liquid-cooled
	Plug type	CCS1 (also available in Europe with CCS2)
	Functionality	Flexible cable for easy access to charging sockets on the vehicle
	Cable length	12.5 ft without ground contact when plugged in



* Depending on the grid connection power/vehicle voltage/charging curve of the vehicle without auxiliary consumers

** Also available in Europe with CCS2 *** Above ground variant approx. 1.95 ft higher **** Depending on the approval of local authorities



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