EN

ChargeBox system

Ultra-fast charging on power-limited grids

Nominated for the **Deutscher Zukunftspreis** (German Future Prize) **2022**

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 optimisation*
Use renewable energy more efficiently. For the environment and cost-effective operation.

Peak shaving*
Significantly reduce energy costs through the compensation of extreme loads.

*with external EMS

Up to 320 kW
charging power

6x
more power on **power-limited** grids

140 kWh
battery capacity

1.6 m²
installation area
(the smallest system of its class)

Up to 300 m
between **grid connection** and **charging point**

Noiseless
charging dispenser for charging in residential areas

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ChargeBox Booster

Power amplifier

Grid	Grid Configuration	TN-S with 3Ph + N + PE (stationary)
	Frequency	50 Hz
	Inlet power	39–110 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)
	Cell chemistry	Lithium NMC
	Battery capacity	140 kWh
	Cooling	Air- and liquid-cooled
ChargeBox Booster	Vehicle charging power	Up to 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

ChargeBox Dispenser

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

* Depending on the grid connection power/vehicle voltage/charging curve of the vehicle
** Aboveground variant approx. 0.6 m higher *** Depending on the approval of local authorities

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