

ChargeBox System

Ultra-fast charging on the power-limited grid with up to 320 kW



“Circle of Excellence”
of the German Future Prize



1.6 m2 footprint
the smallest system
in its class



6x more power
on the power-limited grid



Silent
charging station
for charging in
residential areas



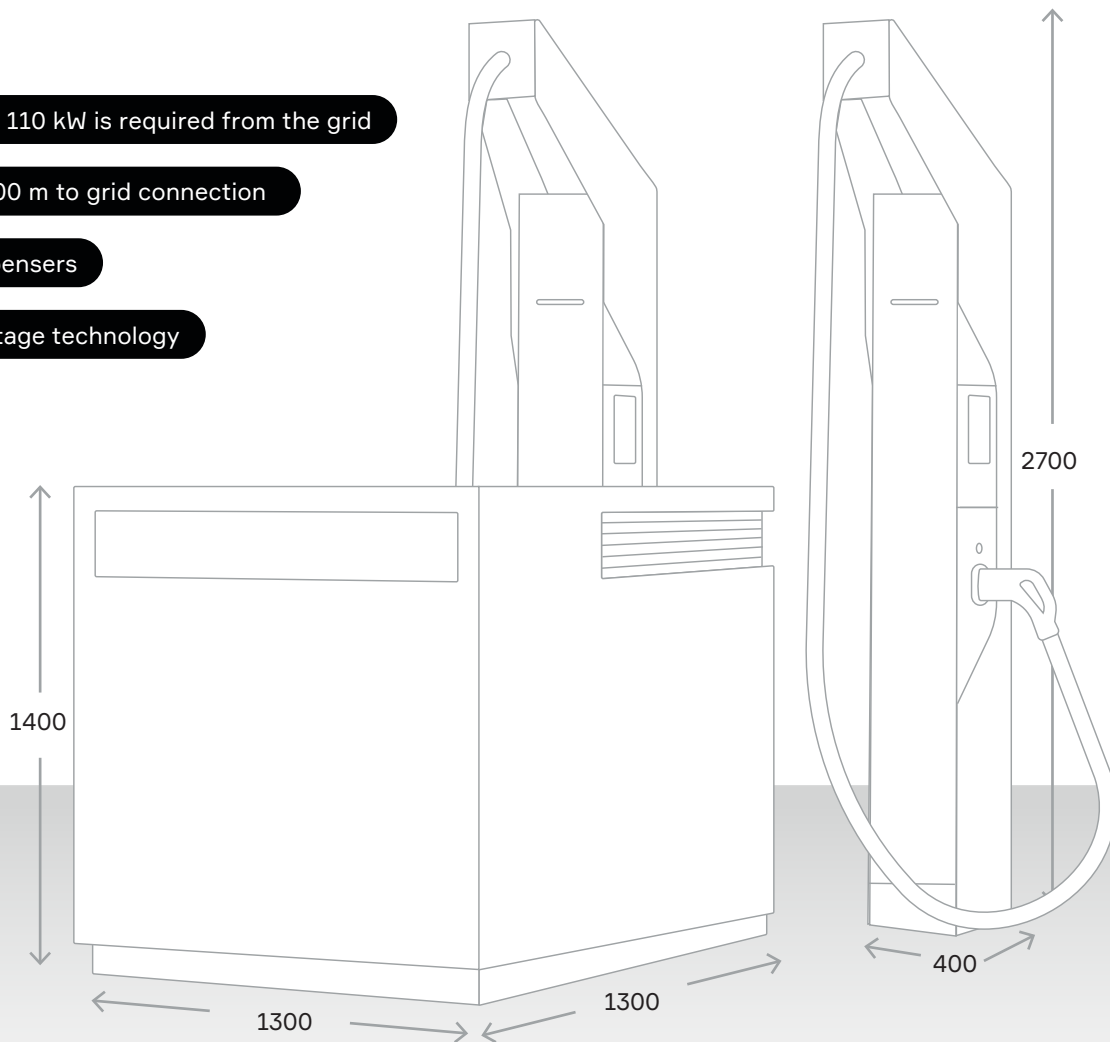
140 kWh
battery capacity
for high utilisation
of the system

only 39 - 110 kW is required from the grid

up to 300 m to grid connection

two Dispensers

high-voltage technology



EV-Charging
on the power-limited grid
with up to 320 kW



Peak shaving*
for reduction of
demand charges



**Renewable
Energy**
more efficient use*



Monitoring
at cell level for
sustainable battery
utilisation



Nominee 2022
Circle of Excellence



Energy

ChargeBox Booster

EV Charging	Charging power	Two charging points with up to 1x320 kW or 2x160 kW simultaneously
	DC output voltage	150–920 V DC
	Charge current	Max. 500 A
Grid	Grid configuration	TN-S with 3Ph + N + PE (stationary)
	Frequency	50 Hz
	Input power	39–110 kVA
	Input voltage	400 V (+/- 10%)
	Input current	Max. 186 A
Battery system	Warranty	Up to 10-year cell performance warranty on battery cells (combined with Advanced Service contract and Bat-X)
	Gross capacity & cell technology	Up to 140 kWh, lithium-ion
	Battery module weight	< 25 kg, easy to replace
	Cooling	Air- and liquid-cooled
ChargeBox Booster	Electrical efficiency	up to 96%*
	Target markets	EU (variant for USA and Kanada available)
	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	2.8 t (incl. cooling medium and batteries)
	Installation options	up to 200 m distance from grid connection
	DC output voltage	150–920 V DC
Communication	Back-end connection	Fibre-optic cable, 4G, Ethernet, 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

Dimensions	L x W x H	0.4 x 0.4 m (footprint) 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 & plug type	Liquid-cooled, CCS2 plug
	Functionality	flexible cable for conveniently reaching the charging sockets on the vehicle
	Cable length	3.8 m



Phone +49 7022 2522-201
energy@ads-tec-energy.com
www.ads-tec-energy.com

* 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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