crema&charge bi-directional

The Wallbox for Bidirectional Vehicles

crema&charge bidirectional turns the car into a home power plant. In collaboration with automotive manufacturers, our new device series forms the basis for the next brand-specific offerings for integrating vehicle batteries. As a photovoltaic storage system, the car is not just a status symbol but a building block in the future energy system.

Car Batteries as Storage for Self-Generated Electricity

With the crema&charge Bidi, bidirectional electric vehicles can be connected to the home network via three-phase power. The electrical contractor installs the safety equipment and Ethernet cable, preferably as a Plug&Play CEE32 socket depending on the country. The connection power is 3x32A, 400V. The wallbox can be either wall-mounted using a mounting plate or floor-mounted with a stand.

Bidirectional Charging with Grid Approval

Since 2018, we have been using vehicles bidirectionally as energy storage with VDE-AR-N-4105 approval. This new wallbox from Switzerland connects to the power grid across the rest of Europe. The grid codes can be configured specifically for each country and grid operator.

Independent CO_2 neutral

International Grid Codes

MEB 77kWh compatible

22kW bidirectional

VW compatible Approved

for commercial distribution for all VW ID models with min. 77kWh battery & software 3.5 or higher.

Based on approval from 14.8.2024 to use the proprietary VW protocol (ISO 15118-2) for bidirectional charging.

Store self-generated electricity in your car: crema&charge bidirectional

Since 2018, the first grid-approved bidirectional wallbox from EVTEC has been available. Starting in 2025, the crema&charge bidi will connect the next generation of vehicles to the home network in compliance with grid standards. The vehicle's battery capacity will then function like a stationary home storage system, helping to avoid peak loads or increase self-consumption. Electric vehicles can thus promote the energy transition.

CCS
Plug

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Easy Bidirectional Charging

crema&charge bidirectional is a new device platform designed to use additional European vehicle models with CCS2 plugs as storage for self-generated renewable energy. Since 2010, EVTEC AG, Switzerland, has been supplying electronics and charging devices for the electrification of modern vehicle fleets.

crema&charge

- 22kW Bidirectional
- Surplus charging and load management V2H
- Grid-friendly services V2G
- Integrate vehicle batteries as home storage

Charging Station crema&charge bidi*	
DC Plug	CCS-Type2, IEC 62196-3
DC Charging and Discharging Power	22kW / 20kW with CEE32 plug
DC Safety	Short-circuit protection, overcurrent protection, overvoltage protection, undervoltage protection, insulation monitoring, grounding monitoring
DC Current	1x 73A
DC Charging Cable	CCS2
DC Voltage	150-1000V DC (150-300V DC max.11kW
AC Network Connection	L1, L2, L3, N, PE, 3x400V, 50/60Hz
AC Current	max. 38A 22kW / 32A 20kW / 16A 11kW
Combined Charging System (CCS2)	DIN 70121, ISO 15118-2, VAS Bidi Extension, Plug IEC 62196-3
Charging Cable	Cable length: 5.5m
Display / HMI	10" with good readability under all conditions / Power, energy display, battery status, and charging costs in real-time
RFID	ISO/IEC 14443A, ISO7816, MIFARE Ultralight®, NTAG203, MIFARE Mini, MIFARE Classic® 1K, MIFARE Classic® 4K, FM11RF08
Communication / Interfaces	OCPP 1.5, OCPP 1.6, OCPP 2.0 (ready) Ethernet-Port, GPRS, UMTS, LTE
Access / Payment Systems	RFID (eCarUp, Move, swisscharge, etc.), Optional: NFC Authentication, Credit and Debit Cards such as Visa, Mastercard, Maestro, V-Pay, Apple-Pay, Google-Pay, Samsung-Pay
Environment / Vandalism	IP 54 IK 10 (except display)
Operating Temperature	-20°C to +45°C
Storage	-40°C to +75°C with RF 5% to 95% (non-condensing)
Maximum Noise Level	65dB(A) at 1m
Short-Circuit Resistance	10 kA Icu
EMC	EN 61000-6-1, -2, -3, -4
Compliance	EN 61851-1, -22, -23; EN 62479; EN55011 + A1
Overvoltage	Type 2 + Type 3 / Class II Optional: Type 1 + Type 2+ Type 3 / Class I + Class II
Efficiency	96%
Power Factor	> 0.99 (at > 50% power)
THDI	≤5%
Mounting	Wall mounting, floor mounting with stand
Dimensions (W x D x H)	238 x 554 x 799 mm
Weight	60kg
Max. Mounting Height a.s.l.	2000

*** Preliminary specifications: Values may vary in series production.**

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the &chargefamily

EVTEC

moka corretto system
Up to 384kW DC charge power with distributed architecture and minimal footprint for dispenser.

bricco corretto system
Up to 2x 192kW DC charge power with distributed architecture for depot applications.

ristretto&charge
High power charger with up to 384kW DC and voltages up to 920V. Charge 3 vehicles simultaneously.

cappuccino&charge
100kW DC, including dynamic load distribution, charges up to three vehicles at the same time.

move&charge
Plug&play 20kW DC + 22kW AC charge. Optional version with 1000V, available with all DC-plugs.