

KOSTAL^{ize}

your mobility

DC BIDI WALLBOX

Bi-directional wall box in 7.4 / 11 kW*

Breaking new ground with KOSTAL technology – Bi-directional charging completely individual

KOSTAL Charging Solutions offers customisable, bidirectional DC wallboxes for your vision of a new mobility.

Individual: The suited optics are provided by three different individualisation levels. Through a large number of freely configurable functions for the equipment the wallbox can be flexibly adapted to customer requirements.

Intuitive: The Wallbox enables a simple installation and configuration for the electrician. The display of the current charging status and switching between the charging modes is done intuitively via the HMI display or control panel.

Intelligent: „Smart Charging“ charges electric vehicles efficiently and cost-effectively. Bidirectional charging enables various applications, as the e-car serves as a mobile electricity storage unit, that can absorb renewable electricity and feed it back into the grid.

Customised bidirectional wallbox for your company*

- 1 DESIGN:**
 Three different customization levels from branding, through the color to the individual shape of the lid (while retaining the interfaces to the basic device) ensure the recognition value of your company.
- 2 FEATURES:**
 Thanks to the wide range of different functions such as power class, communication interfaces and -protocols, the wallbox is tailored precisely to your needs.
- 3 SPECIFICATION:**
 KOSTAL can look back on 100 years of experience as an automotive supplier. So creating specifications as well as developing products to meet specifications are part and parcel of what we do day in, day out.
- 4 PROCEDURE:**
 From the first idea to a concrete project, KOSTAL Charging Solutions is your contact for individual wall boxes.

* KOSTAL Charging Solutions also offers the DC Wallbox unidirectionally on request.

Driving forward the energy transition – customer-oriented, sustainable, efficient

Possible applications (examples)

- **For customers:** While shopping, the customer's vehicle charges surplus electricity into the company's grid, which is credited to the customer at the time of payment.
- **For employees:** If employee parking spaces are equipped with a bidirectional wallbox, employees can both charge their car and also feed the electricity into the company grid in order to receive further benefits
- **For companies:** In combination with a PV system surplus electricity can be fed into the company's own vehicle fleet or energy from vehicles that are not in use can be fed back into the company network.

DC Bidi Wallbox	
Product	Wallbox
Charging mode	DC
Charging mode	Mode 4
Power flow	Bidirectional
(Maximum) charging power	7.4 kW / 11 kW
Configurable charging power	Yes
Number of charging points	1
Charging plug connection	Charging cable
Charging plug type	CCS2
Cable length (in m)	4.5 (Optional 7.5)
Labelable	Yes
Customisable	Logo / Colour
HMI	LED status lights
Authentication	Release via external signal / RFID / Autocharge (optional) / Plug & Charge according to ISO 15118 / App or QR code
Communication interfaces	RS485 / LAN / WLAN / LTE-Modem
Other (internal) interfaces	HMI-board / RFID/NFC-board / (Touch) display connector
Communication protocols	MOD Bus TCP / EE Bus / ISO 15118 / OCPP 1.6 and 2.0.1
Different charging modes	Yes
Charge point management	Connection to external HEMS - KSEM for control / monitoring via communication data points (user assignment)
Load management	Charging point control of 5 wallboxes (incl. shift load, blackout protection, distribution!) and address settings of the individual wallbox directly on the unit, e.g. via the web server (control via HEMS/ KSEM)
Energy management	Intelligent charging via EE bus / Connection to local HEMS via MOD Bus RTU and MOD Bus TCP interface.
Energy meter	Integrated energy meter / MID compliant / Compliant with calibration law
Backend connection via OCPP	Yes
DC fault current detection 6mA	Yes
Protection class	IP65
Impact resistance	IK09
Dimensions (in mm)	590 x 410 x 230
Weight (in kg)	<25

Subject to technical changes.

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your own charging system.
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