Data sheet
eBOX professional

The eBOX is a future-proof charging solution for electric vehicles. It is particularly suitable for connected use in the private and commercial sector.

It offers fast charging with up to 22 kW (AC) and can be networked via WiFi, LAN and mobile data network. It is linked to the software backend via OCPP 1.6 JSON. Charging processes are activated via app or RFID charging card. Thanks to its LED signature ring, the eBOX provides feedback on the charging process within seconds. This ensures an intuitive user experience.

With the aid of the eCLICK docking station, the eBOX is easily mounted on the wall or on a pole. It is available with both a Type2 socket and a Type2 charging cable. Optionally, the eBOX is available in variants in compliance with calibration regulations in Germany.

The power to move

Highlights

- Charging with up to 22 kW AC

- Optional calibration law-compliant billing via OCMF

- Convenient single-hand operation

- Connectivity via WiFi, LAN, 4G

- Includes eCONFIG app for commissioning

- ISO 15118 ready

- IP55 rating

- Upgrade/replacement of device without electrician thanks to eCLICK

- Connection to IT backends via: OCPP 1.6J

- Energy/load management: Modbus protocol, FNN standard control box interface

- Onboard load management: demand-based sharing of power between eBOXes in a local network without additional hardware

- Can be integrated into photovoltaic systems via third-party applications

- Accessible SIM card slot for inserting or exchanging the SIM card

Accessories

- Concrete base for ePOLE, ePOLE duo

- Concrete base for ePOLE, ePOLE sbs (short), ePOLE btb (short), ePOLE duo (short)

- ePOLE, ePOLE back-to-back, ePOLE duo

- eClick

- eLOCK interlock for eBOX

- eLOCK select interlock for eBOX

- Locking cylinder

- Locking with a padlock for Poles

- Cable holder

- eSMARTMETER

- RCD type A

- Circuit breaker

Technical data

General

Charging mode	AC, mode 3
Number of charging points	1
Charging connector	Type 2 socket, optional type 2 charging cable (6.5 m)
IT backend connection	OCPP 1.6 JSON
Authorisation	Free charging, RFID, smartphone app MSP
Package dimensions (H x W x D)	515 x 225 x 235 mm (without charging cable); 695 x 235 x 370 mm (incl. charging cable)

Mechanical details

Mounting type	Wall mounted (wm); optional: Base mounted (bm)
Enclosure material	Copolymer
Surface	–
Lock	Optional locking cylinder
Dimensions (H x W x D)	Wall mounted version: 450 x 180 x 170 mm (incl. eCLICK)
Weight	Approx. 3.1 – 7.4 kg, depending on added options

Electrical data

Maximum charging output per charge point	22 kW: Type 2 socket; 22 kW: Type 2 charging cable
Nominal voltage, number of phases, nominal frequency	230 – 400 V; 1 – 3; 50 Hz
Output voltage	–
Maximum input current	32 A per phase, configurable
Maximum output current	32 A
Device power consumption in standby mode	6 W
Efficiency	–
Connections	5-pole terminals (up to 10 mm²)
Earthing system	TN, TT
Protection	DC residual current detection 6 mA
Overvoltage protection	Compliant with IEC 61851-21-2:2018
Protection class	1
Welding detection	Connection via changeover contact (max. 230 V, 1A), used e.g. for shunt release to disconnect main power path
Measurement accuracy	Class A (DIN EN 50470)
Power factor cosϕ	0,90 – 1
Calibration law	The measurement accuracy of this meter is guaranteed only from a minimum output energy quantity of 1 kWh

Technical data

Connectivity

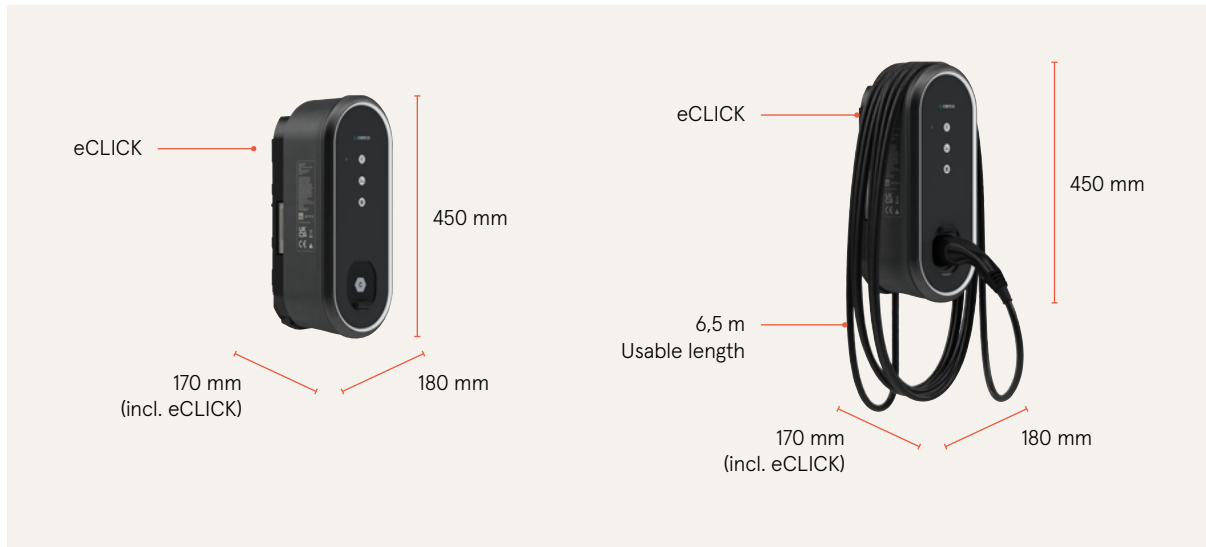|	
Communication interface to IT backends	LAN, Wireless LAN (2.4 Ghz), mobile data network (2G/4G), depending on product variant with free accessible SIM card slot or including integrated SIM card to eOperate backend, can be exchanged at a later date
Protocols for communication with IT backends	OCPP 1.6 JSON
Protocols for communication with third-party devices	Modbus TCP/IP
Communication Interface EV and EVSE	–
Control ability	FNN-standard control box interface; dry contacts
Update capability	WiFi, LAN, mobile data
User interface	2 LED displays for authorisation and vehicle connection status, 1 LED button for Bluetooth connection
Status display	LED ring
Display	Without

Certification

IP protection class	IP55
Impact resistance	IK10
Meter / German calibration law	Optional: MID-compliant smart meter (included in calibration-law compliant version)
Approvals	CE, UKCA, RoHS, REACH, GPSD, WEEE
Standards	DIN IEC 61851-21-2:2018; DIN IEC 62262:2002; DIN EN 62196-2; DIN IEC 61851-1 Ed.3/EN 61851-1 (2017)

Environmental conditions

Storage temperature	–30 °C to +80 °C
Environmental operating temperature	–30 °C to +50 °C
Humidity	5% to 95%
UV protection	External area: F1
Degree of pollution	–
Noise level	–
Areas of use	Internal & external areas
Operating altitude above sea level	2,000 m max.

Measurements

eCLICK

450 mm

170 mm
(incl. eCLICK)

180 mm

eCLICK

450 mm

6,5 m
Usable length

170 mm
(incl. eCLICK)

180 mm

Illustrations/model variants

eBOX
professional
(Article no. i00021943)

eBOX
professional
(Article no. i00021944)

eBOX
professional
(Article no. i00021945)

eBOX
professional
(Article no. i00021946)

COMPLEO

Compleo Charging Solutions GmbH & Co. KG

Ezzestraße 8
44379 Dortmund
Germany

info@compleo-cs.com
compleo-charging.com

Technical changes and errors excepted.

The power to move