

Compleo eBOX smart Data sheet



eBOX smart is a future-proof charging solution for electric vehicles. It is particularly suitable for networked use in the private and commercial sector. It features fast charging with up to 22 kW and can be networked via WLAN. The backend connection is made via OCPP 1.6J. eBOX smart communicates with the user via a coloured LED ring, thus enabling intuitive user guidance. With the help of eCLICK, eBOX smart can be mounted on the wall or on a pillar and is available with both Type 2 socket and Type 2 charging cable.



eBOX smart
with Type 2 socket



eBOX smart
with Type 2 charging cable

Highlights

- ✓ **Adjustable charging power:** stepless from 3.7 kW to 22 kW
- ✓ **Networkable via:** Wi-Fi
- ✓ **Energy-/load management:** via Modbus protocol*, grid control interface
- ✓ **Connection to IT backends:** OCPP 1.6J
- ✓ **Calibration-compliant billing (optional**):** OCMF, according to German law
- ✓ **Low-cost pre-installation:** DC residual current detection integrated
- ✓ **Simply click in:** upgrade or replace device without electrician
- ✓ **Especially robust:** suitable for indoor and outdoor use
- ✓ **Foliation:** possible with customer logo

* If you desire a connection via Modbus protocol, it is not possible to manage your own eBOX via the eCHARGE+ app for IT security reasons.

** see data sheet „eBOX with design complying with calibration regulations“

Certificates



As of: 03/2022
Document Center:



Compleo eBOX smart

Data sheet

General data

Number of charging ports	1
Cable length (version with cable)	6.5m
Charging mode	Mode 3 according to IEC 61851
Areas of use	Indoor and outdoor areas
IP code of the housing	IP 55
Protection category (impact strength)	IK10 according to IEC 62262:2002
UV protection	Outdoors (F1)
Housing material	Copolymer
Storage temperature	-30 °C to +80 °C
Weight	3.1 kg (without charging cable)/6.4 kg (with charging cable) (both without eCLICK and without eSMARTMETER)
Packaging dimensions (W x D x H)	515 mm x 225 mm x 235 mm (without charging cable)/ 695 mm x 370 mm x 235 mm (with charging cable)
Self-consumption in standby mode	6W
Certifications	CE (tested and confirmed by certified body); UKCA
Foliation	Individual foliation with customer logo possible
Charging port number (EVSE-ID)	Lasered on shutter

Conditions of work

Operating temperature	-30°C to +50°C at full load Thermal overload protection: output power reduced at higher temperatures
Humidity	5 % to 95 % according to IEC 61851-1 Ed.3/EN 61851-1 (2017)
Max altitude above sea level	Max. 2,000 m (air pressure: 860 hPa to 1,060 hPa)
Protection class	Protection class I

Electrical input/power connection

Input power from eCLICK	Three-phase current 400 V AC, 32 A (22 kW)/20 A (13.8 kW)/16 A (11 kW) Alternating (single-phase) current 230 V AC, 32 A (7.4 kW)/20 A (4.6 kW)/16 A (3.7 kW)
Charging power	3.7/4.6/7.4/11/13.8/22 kW (16 A, 20 A, 32 A; single- or three-phase)
Output power	Three-phase current 400 V AC 32 A (22 kW) or 16 A (11 kW) Alternating (single-phase) current 230 V AC, 32 A (7.4 kW) or 16 A (3.7 kW)
Plug assembly	Without charging cable: Type 2 plug assembly as defined under DIN EN 62196-2 with automatic plug locking, shutter With charging cable: Type 2 plug as defined under DIN EN 62196-2, plug compartment on eBOX, shutter
Consumption measuring	eSMARTMETER electricity meter: optional for eCLICK, MID-compliant (Europe) and CE-certified

Compleo eBOX smart

Data sheet

Protective equipment

DC residual current monitoring (protection of people)	Integrated AC/DC sensitive RCD, triggering at: DC 6 mA
Welding detection (indication signal for welded power contacts)	Connection via change-over contact (max. 230 V, 1 A), use e.g. for shunt release for disconnection of main power path
Integrated overvoltage protection	According to IEC 61851-21-2:2018 (ESD/surge/burst)

Communication

Vehicle communication	Charging current controlled via PWM pilot signal in accordance with IEC 61851-1:2017
Direct communication	Bluetooth Class 1 and 2 (power level)
Backend connectivity	Via OCPP 1.6J to Compleo backend or third-party backends
Backend communication	WLAN with 2.4 GHz IEEE 802.11 b/g/n with WPA2 (antenna gain, frequency-dependent, max. 4.6 dBi)
Control by grid operator	Potential-free contacts available to connect to a grid control box

Authentication

Authentication/activation	Free charging, smartphone app (eCHARGE+ app/third-party apps) from contracted providers or direct payment via epowerdirect.com
---------------------------	--

UI/UX

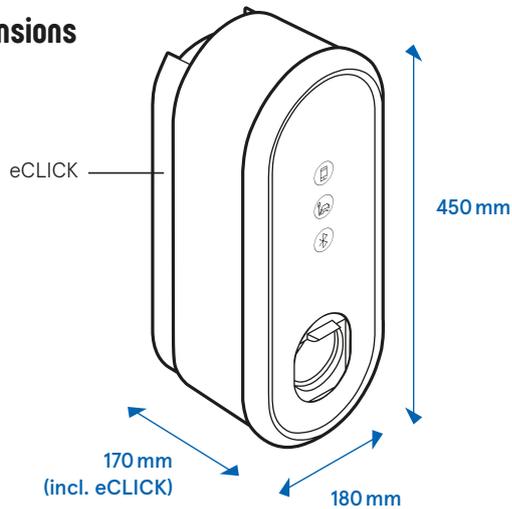
Display/interaction	LED ring for charging status display, 2 LED indicators for status authentication and vehicle connection, 1 LED button for Bluetooth connection
Operating instructions	Attached to the side of eBOX as a graphic

External accessories

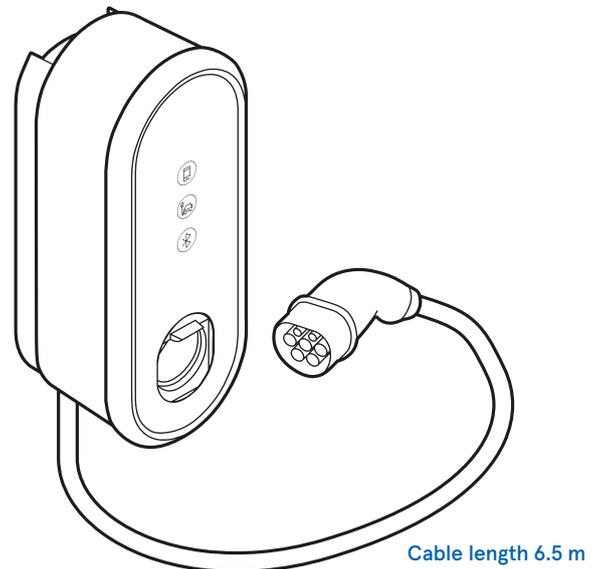
User protection to be installed in sub-distribution	Type A RCD: 32A connection: ABB F204A-40/0.03, Type A, 4-pin (short time delay operating voltage: 230/400 V AC) 16A connection: ABB F204A-25/0.03, Type A, 4-pin (short time delay operating voltage: 230/400 V AC)
Short circuit/overload protection to be installed in sub-distribution	Over-current protection device: 32A connection: ABB S203-NA K40A (rated switching capacity: 6,000 A) 16A connection: ABB S203-NA K20A (rated switching capacity: 6,000 A)

Compleo eBOX smart Data sheet

Dimensions



eBOX smart
with Type 2 socket



eBOX smart
with Type 2 charging cable

Mounting options

eCLICK can also be used as installation preparation for clicking in the eBOX later without an electrician.



Wall mounting
with eCLICK



ePOLE



ePOLE side-by-side



ePOLE back-to-back



ePOLE duo

Compleo Charging Solutions AG

Oberste-Wilms-Straße 15a
D-44309 Dortmund | Germany
servicedesk@compleo-cs.com
compleo-cs.com

UK sales partner

Compleo Charging Solutions UK Limited
6th Floor | 60 Gracechurch Street
London | EC3V 0HR | Great Britain