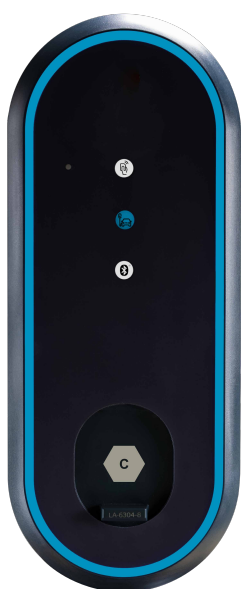


Compleo eBOX professional

Data sheet



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



eBOX professional
with Type 2 socket



eBOX professional
with Type 2 charging cable

Highlights

- ✓ **Ajustable charging power:** stepless from 3.7 kW to 22 kW
- ✓ **Networkable via:** WLAN, LAN and mobile radio
- ✓ **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
- ✓ **With backend connection (OCPP 1.6J):**
activation with e.g. RFID card or Plug & Charge (ISO 15118)
- ✓ **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

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

Certificates



As of: 03/2022
Document Center:



Compleo eBOX professional

Data sheet

General data

| | |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Number of charge points | 1 |
| Cable length (version with cable) | 6.5 m |
| 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 | 6 W |
| Certifications | CE (tested and confirmed by certified body); UKCA |
| Foliation | Individual foliation with customer logo possible |
| Charge point number (EVSE-ID) | Lasered on shutter |

Conditions of work

| | |
|------------------------------|-----------------------------------------------------------------------------------------------------------|
| Operating temperature | -30 °C to +50 °C at full load Overheating protection: reduction of output power 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 professional

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 (with connection via SIM card the provider is to be specified prior to order) |
| Backend communication | WLAN with 2.4 GHz IEEE 802.11 b/g/n with WPA2 (antenna gain, frequency-dependent, max. 4.6 dBi) or LAN or mobile radio via backend-specific and fixed SIM card, can be provided prior to production (frequency and directionally dependent, max. 4.4 dBi antenna gain); for use of private Compleo software services via WLAN or LAN only |
| 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 epowereirect.com |
| Plug & Charge (ISO 15118) | Yes |
| RFID authentication | Yes, in accordance with ISO 14443A, Type V (ISO/IEC 15693/Vicinity). Supported protocols: MIFARE Classic 1K, MIFARE Classic 4K, MIFARE DESfire V1 4K, MIFARE DESfire V2 4K, MIFARE DESfire V1 8K, MIFARE DESfire V2 8K, MIFARE Ultralight Standard, MIFARE Ultralight C, MIFARE Ultralight NXP NTAG 216, MIFARE Plus SE 1K, MIFARE Plus X 2K, LEGIC advant ATC 1024-MV, Legic advant ATC 4096, J3A081 JCOP 2.4.1 Rev 3, ICODE SLIX, ICODE ISO, TAG-IT HFI plus 2048 and SLE 66 R 35 |

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 |

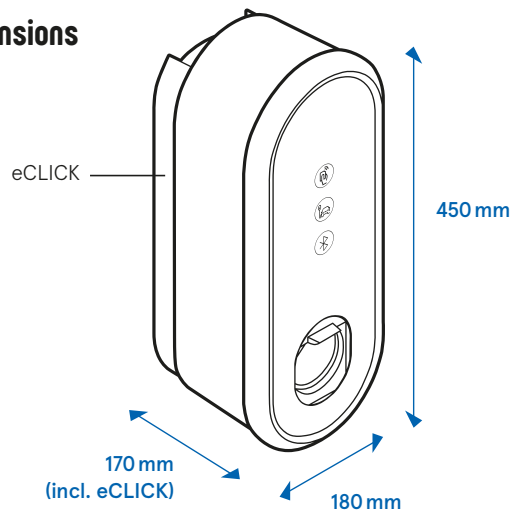
External accessories

| | |
|-----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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) |

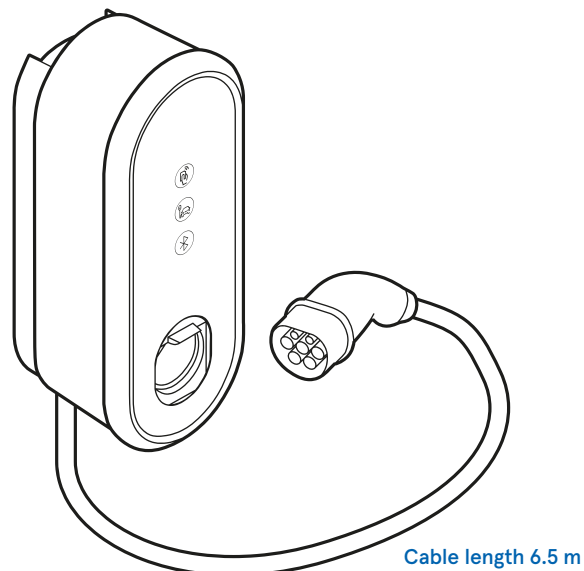
Compleo eBOX professional

Data sheet

Dimensions



eBOX professional
with Type 2 socket



eBOX professional
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

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