

# Data sheet eBOX professional

Model: socket, calibration law-compliant, anySIM

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The eBOX professional is a future-proof charging solution for electric vehicles. It is particularly suitable for connected use in the commercial sector. It has a type2 socket and offers fast charging with up to 22 kW (AC) as well as billing in compliance with calibration regulations in Germany.

The eBOX professional enables connectivity via WiFi, LAN and 4G 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 professional provides feedback on the charging process within seconds. This ensures an intuitive user experience. With the help of the eCLICK docking station, the eBOX professional is easily mounted on the wall or on a pole.



# Highlights

- Charging with up to 22 kW AC
- Calibration law-compliant billing via OCMF
- Convenient single-hand operation
- Connectivity via WiFi, LAN, 4G
- Includes eCHARGE+ control app
- Includes eCONFIG app for commissioning
- ISO 15118 ready
- IP55 rating
- 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
- eLOCK interlock for eBOX
- eLOCK select interlock for eBOX
- Locking cylinder
- Locking with a padlock for Poles
- Cable holder
- RCD type A
- Circuit breaker

# Technical data

## General informationen

Charging mode	AC, mode 3
Number of charging points	1
Charging connector	Type 2 socket
IT backend connection	OCPP 1.6 JSON
Authorisation	Free charging, smartphone app (eCHARGE+ or third-party), RFID
Package dimensions (W x D x H)	515 x 225 x 235 mm

## Mechanical details

Mounting type	Wall mounted (wm); optional: Base mounted (bm)
Enclosure material	Copolymer
Lock	Optional locking cylinder
Dimensions (H x W x D)	Wall mounted version: 450 x 180 x 170 mm (incl. eCLICK)
Weight	Approx. 4.1 kg

## Electrical data

Maximum charging output per charge point	22 kW: Type 2 socket
Nominal voltage, number of phases, nominal frequency	230 - 400 V; 1 - 3; 50 Hz
Maximum input current	32 A per phase, configurable
Maximum output current	32 A
Device power consumption in standby mode	6 W
Connections	5-pole terminals (up to 10 mm <sup>2</sup> )
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 $\cos\phi$	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), free accessible SIM card slot
Protocols for communication with IT backends	OCPP 1.6 JSON
Protocols for communication with third-party devices	Modbus TCP/IP
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	MID-compliant smart meter
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
Areas of use	Internal & external areas
Operating altitude above sea level	2.000 m max.

# Technical data

## Measurements



## Viewpoints





The power to move



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