

# Product Information eBOX professional

Be Connected, Choose Metric



**metric** 

**ev charging** 

# 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
- Upgrade/replacement of device without electrician thanks to eCLICK
- Energy/load management Via Modbus protocol, FNN standard control box interface
- Can be integrated into photovoltaic systems via third-party applications
- Connection to IT backends via: OCPP 1.6J

# Accessories

- Wall mounted eCLICK
- Concrete base for ePOLE, ePOLE duo
- Concrete base for ePOLE, ePOLE duo, ePOLE back-to-back (short)
- ePOLE for one eBOX
- ePOLE back-to-back for two eBOXes
- ePOLE back-to-back short for two eBOXes
- ePOLE duo for two eBOXes (EKA)
- ePOLE DUO short; for two eBOXes
- eLOCK for eBOX
- eLOCK select for eBOX
- Cable holder ePOLE duo
- eSmartMeter
- RCD type A (F204A, 4-pole 25/0.03A/ABB)
- RCD type A (F204A, 4-pole 40/0.03A/ABB)
- Circuit breaker (S203 3-pole+N K20A ABB)
- Circuit breaker (S203-NA K40A ABB)

# Technical Data

## Mechanical details

Charging mode	AC, mode 3
Number of charging points	1
Charging connector	Type 2 socket, optional type 2 charging lead (6.5 m)
IT backend connection	OCPP 1.6 JSON
Authorisation	Free charging, smartphone app (eCHARGE+ or third-party), RFID
Package dimensions (WxDxH)	Wall mounted version: 515 x 225 x 235 mm (without charging lead); 695 x 370 x 235 mm (incl. charging lead)

## Mechanical details

Mounting type	Wall mounted (wm); optional: Base mounted (bm)
Enclosure material	Copolymer
Lock	Optional locking cylinder
Dimensions (HxWxD)	Wall mounted version: 450 x 180 x 170 mm (incl. eCLICK)
Weight	Approx. 3.1 - 6.4 kg, depending on added options

## Electrical data

Maximum charging output per charge point	22 kW: Type 2 socket; 22 kW: type 2 charging lead
Nominal voltage, number of phases, nominal frequency	230 - 400 V; 1 - 3; 50 Hz
Maximum input current	32 A per phase, configurable
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

# Technical Data

## Connectivity

Communication interface to IT backends	LAN, Wireless LAN (2.4 Ghz), mobile data network (2G/4G), inclusive non-exchangeable integrated SIM card to eOperate
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	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
Areas of use	Internal & external areas
Operating altitude above sea level	2,000 m max

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