eBox professional
Data sheet

DKV

eClick

450 mm

170 mm
(incl. eClick)

180 mm
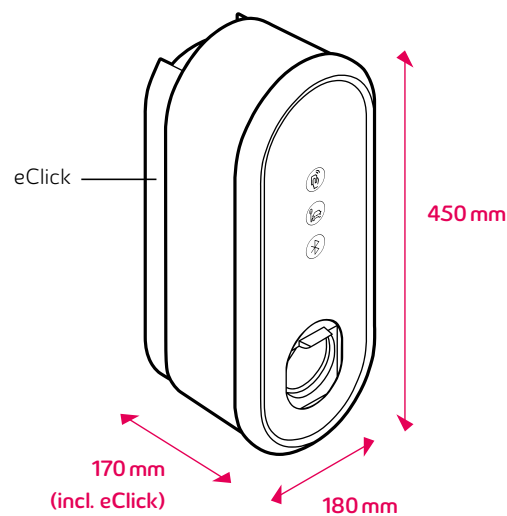
eBox professional
with Type 2 socket

Key features

» The eBox professional is a modern, leading-edge charging solution for electric vehicles
» It can be used easily and quickly for charging up to 22 kW of power
» Charging status displayed by 3 LEDs and LED ring
» Simple touch button start-up
» LTE / 3G / 2 G communication to the Backend

Certificates

CE

eBox professional
Data sheet

DKV

General and electrical specifications — eBox professional

Charging power	3.7 / 4.6 / 7.4 / 11 / 13.8 / 22 kW (16 A, 20 A, 32 A; single- or three-phase)
Applications	Protected internal areas; unprotected exterior areas exposed to rain and direct sunlight
IP	IP 55
Operating temperature	-30 °C to +50 °C (full load output at -30 °C to +50 °C) Thermal overload protection: output power reduced at higher temperatures
Air humidity	5 % to 95 % as defined under 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)
UV protection	Outdoors (F1)
Housing material	Lexan® EXL9330 (copolymer)
Protection category (impact strength)	IK10 as defined under IEC 62262:2002
Weight (without eClick and eSmartMeter)	eBox smart socket version 3.1 kg
Number of charging ports	1
Plug assembly	Socket version: Type 2 plug assembly as defined under DIN EN 62196-2 with automatic plug locking, shutter
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)
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)
Standby power	6 W
Charging mode	Mode 3 (IEC 61851)
Vehicle communication	Charging current controlled via PWM pilot signal (IEC 61851-1:2017)
Alternative vehicle communication	ISO 15118 ready via PLC
User protection: integrated	Integrated AC/DC sensitive GFCI, triggering at: DC 6 mA
Display / interaction	LED ring for charging status; 2 status LEDs: authentication / RFID, vehicle link; 1 status LED as touch button: Bluetooth
RFID authentication	Yes
Charging port number	Charging port number lasered on shutter

eBox professional
Data sheet

General and electrical specifications	eBox professional
Certifications	CE certificate (tested and confirmed by a certified body)
Information for use	Schematics for use are included with the product and may be affixed by the customer to the eBox

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