

EVBox Elvi

home charging solution



From 7.4 to 22 kW

Tracks and invoices charging sessions

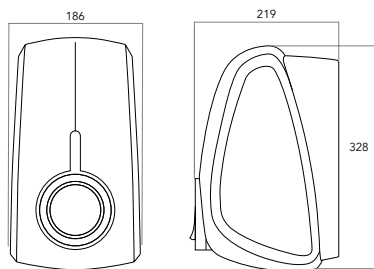
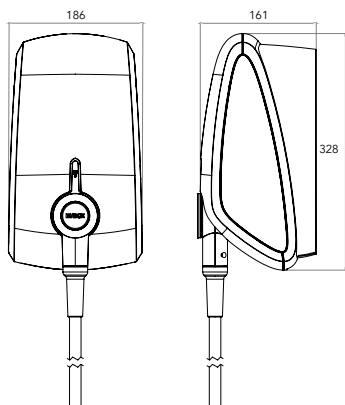
Easy to use, install, and upgrade with modular, click-on features

Compatible with every electric car—now and in the future

Best suited for residential use

at houses and multi-unit dwellings

Dimensions in mm



Electrical properties

Charging capacity	Upgradable 7.4 –22 kW
Charge mode	Mode 3 (IEC 61851-1)
Number of connectors	1
Connector options	Fixed cable or Type 2 socket
Fixed cable type	Type 1 (SAE J1772) or Type 2 (IEC 62196-2) plug
Fixed cable length	6 m (20 ft)
Connection capacity	Selectable 1-phase or 3-phase, 230–400V, 16 A and 32 A, 50-60 Hz 12 VDC
Secondary power circuit	
Relays	2 x 35 A, 2 P, 12 V coil current
Metering	Optional 3-phase S-Bus MID-certified kWh meter in wall dock

Safety and certification

Ground fault detection	6 mA DC CCID
Housing fire ratings	UL94 V-0, US-FMVSS / ISO 3795 passed, DIN 53438 F1/K1
Storage temperature	-25°C to +60°C (-13°F to +140°F)
Operating temperature	-25°C to +45°C (-13°F to +113°F)
Operating humidity	Max. 95% non-condensing
Enclosure ratings	IP55, IK10 (IEC 60529)
CE certified	Yes
Compliance	IEC 61851-1, IEC 61851-21-2, CE EMC EU/2014/30, CE Low voltage EU/2014/35, RED EU/2014/53

Connectivity & Installation

Authorization	Autostart / Keyfob / RFID card - controller with RFID reader type Mifare 13.56 MHz
Status indication / HMI	LED ring
WLAN communication	Wi-Fi 2.4/5 GHz (IEEE 802.11 a/b/g, IEEE 802.11 d/e/i/h) / Bluetooth 4.0
Cellular communication	3G / UMTS (EU/US/JPN) option
External serial communication	RS485 interface for local dynamic load balancing, solar integration, and scheduled charging. This interface enables the use of EVBox Smart Charging.
Charging protocol	OCPP 1.5 S, 1.6 J
Positioning	GPS / Wi-Fi
Maximum installation height	+2000 m (6560 ft) above sea level

Physical properties

Housing	Polycarbonate
Dimensions (WxHxD)	Fixed cable - 186 x 328 x 161 mm (7 x 13 x 6 in) With socket - 186 x 328 x 219 mm (7 x 13 x 8 in)
Weight	3 kg (6.6 lbs) - 3-phase, 32 A station with socket 6 kg (13.2 lbs) - 1-phase, 16 A station with 6 m (20 ft) fixed cable 11 kg (24.2 lbs) - 3-phase, 32 A station with 6 m (20 ft) fixed cable
Mounting	Wall or pole
Standard colors	Misty Black, Polar White

Note:

EVBox Elvi charging stations can charge at 32 A; however, actual charging capacity is dependent on local environmental conditions and internal temperature build up.

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