

EVBox Elvi

Home charging solution



From 3.7 to 22 kW

Tracks and invoices charging sessions

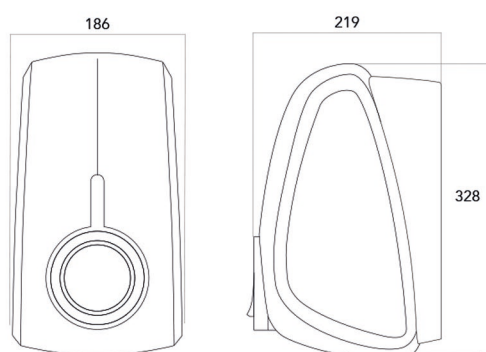
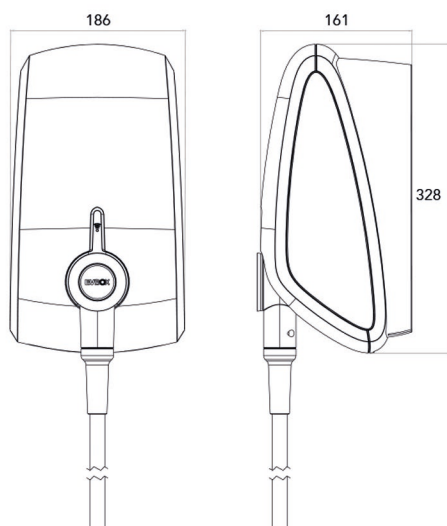
Easy to use, install, and upgrade with modular, click-on features

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 3.7–22 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	4 m (13 ft) or 8 m (26 ft) for Elvi models without dynamic load balancing 6 m (20 ft) for Elvi models compatible with dynamic load balancing
Connection capacity	Selectable 1-phase or 3-phase, 230–400V, 16 A and 32 A, 50-60 Hz
Secondary power circuit	12 VDC
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	30 mA AC / 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
Charging protocol	OCPP 1.5 S, 1.6 J
Positioning	GPS / Wi-Fi
Maximum installation height	+2000 m (6560 ft) above sea level
Smart Charging	Dynamic load balancing, solar integration, and scheduled charging via EVBox Smart Charging

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 4 m (13 ft) fixed cable 11 kg (24.2 lbs) - 3-phase, 32 A station with 8 m (26 ft) fixed cable
Mounting	Wall or pole

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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