

# EVBox Elvi

home charging solution



From 7.4 to 22 kW

Tracks and invoices charging sessions

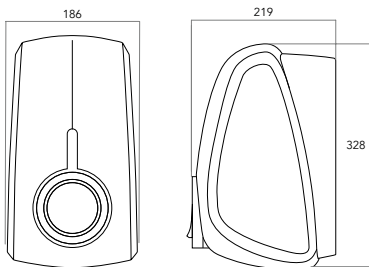
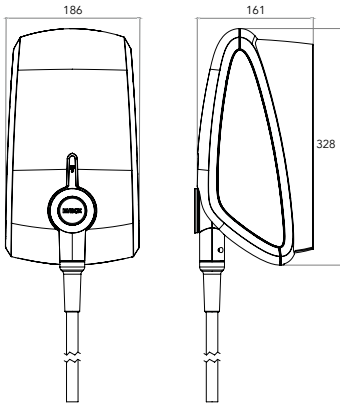
Easy to use, install, and upgrade with modular, click-on features

Compatible with every electric car—now and in the future

Best suited for residential use at houses and multi-unit dwellings

Scalable to include up to 11 charging points per Hub-Satellite network

Dimensions in mm



## Electrical properties

<b>Charging capacity</b>	Upgradable 7.4 –22 kW
<b>Charge mode</b>	Mode 3 (IEC 61851-1)
<b>Number of connectors</b>	1
<b>Connector options</b>	Fixed cable or Type 2 Socket/Socket+Shutter
<b>Fixed cable type</b>	Type 1 (SAE J1772) or Type 2 (IEC 62196-2) plug
<b>Fixed cable length</b>	6 m (18 ft)
<b>Connection capacity</b>	Selectable 1-phase or 3-phase, 230–400V, 16 A and 32 A, 50-60 Hz
<b>Secondary power circuit</b>	12 VDC
<b>Relays</b>	2 x 35 A, 2 P, 12 V coil current
<b>Metering</b>	Optional 3-phase S-Bus MID-certified kWh meter in wall dock

## Safety and certification

<b>Ground fault detection</b>	6 mA DC CCID
<b>Housing fire ratings</b>	UL94-5VA, US-FMVSS / ISO 3795 passed, DIN 53438 F1/K1
<b>Storage temperature</b>	-35°C to 60°C (-31°F to +140°F)
<b>Operating temperature</b>	-25°C to +45°C (-13°F to +113°F)
<b>Operating humidity</b>	Max. 95% non-condensing
<b>Enclosure ratings</b>	IP55, IK10 (IEC 60529)
<b>CE certified</b>	Yes
<b>Compliance</b>	IEC 61851-1, IEC 61851-21-2, CE EMC EU/2014/30, CE Low voltage EU/2014/35, RED EU/2014/53

## Connectivity & Installation

<b>Authorization</b>	Autostart / Keyfob / RFID card - controller with RFID reader type Mifare 13.56 MHz
<b>Status indication / HMI</b>	LED ring
<b>WLAN communication - Hub</b>	Wi-Fi 2.4/5 GHz (IEEE 802.11 a/b/g, IEEE 802.11 d/e/i/h) / Bluetooth 4.0
<b>Cellular communication - Hub</b>	4G LTE (EU) option
<b>External serial communication</b>	RS485 interface for dynamic load balancing and solar integration (also scheduled charging if supported via the backend)
<b>Charging protocol - Hub</b>	OCPP 1.5 S, 1.6 J
<b>Positioning</b>	GPS (Options) / Wi-Fi
<b>Maximum installation height</b>	+2000 m (6560 ft) above sea level
<b>Max cluster size</b>	Each Hub can be paired to 10 Satellite stations max

## Physical properties

<b>Housing</b>	Polycarbonate
<b>Dimensions (WxHxD)</b>	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)
<b>Weight</b>	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 (18 ft) fixed cable 11 kg (24.2 lbs) - 3-phase, 32 A station with 6 m (18 ft) fixed cable
<b>Mounting</b>	Wall or pole
<b>Standard colors</b>	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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