

Ensto Wallbox

EV charging with maximum power

The compact and powerful Ensto Wallbox is a future-proof solution designed to deliver reliable and great EV charging experience for any business.



“Stylish Scandinavian design with smart charging capabilities.”



Even if the winter is coming

Ensto enables EV charging wherever people move



“Enables charging at any weather conditions.”

Ensto Wallbox is perfect fit for large installations in car parks, offices, and condominiums – offering the best charging experience with smart charging solutions. Ensto Wallbox provides maximum charging where one charging station can provide 22kW power from both outlets!

It's smart

OCPP1.6 and dynamic load management are basic features of Ensto Wallbox. On top of which it provides ISO15118 readiness for future needs. With these Ensto Wallbox qualifies as smartest EV charger on market.

It's tough

The structure of Ensto Wallbox guarantees durability for both the weather (IP54) and external impacts (IK10).

It's flexible

Agile factory commissioning to back-end systems, inbuilt 4G/LAN/Wifi communication options and wide range of customer tailorings make Ensto Wallbox the most suitable selection to customers.

It's intuitive

Ensto Wallbox provides user-friendly charging experience together with convenient design and simple user interfaces with Type 2 charging outlets and in-built RFID reader.





Charging station with one 22kW charging outlet



Charging station with two 22kW charging outlets



Extension box variant: Charging station with two 22kW charging outlets

Future proof EV charging solution

- › Wide range of connectivities: 4G/LAN/Wifi/EIA-485
- › Native OCPP communication
- › MID class energy meter
- › Built-in single and multi-level load management capabilities (DLM, mDLM)
- › ISO15118 support

Robust and safe product design

- › Compliant with IEC 61851-1:2019 standard
- › IP54 & IK10
- › Integrated residual current monitoring module for DC residual current leakage detection (RDC-DD, 6mA)
- › RCBO's available with selected models
- › Mode 3 lock release

Tailoring options enable versatile installations

- › Select 1 or 2 Mode 3/Type 2 sockets (1x22kW, 2x22kW, adjustable charging current 6A...32A)
- › Select 2x22kW extension box variant (friends call this "piggypack") with upwards/downwards supply cable feed options making it ideal for parking halls and busbar installations
- › Select wall mounting or pole mounting

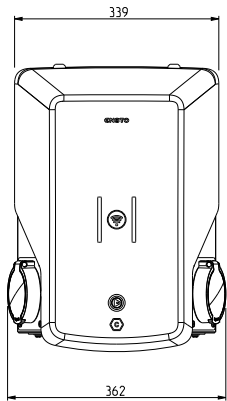
Convenient for the end-user

- › User authentication with in-built RFID reader
- › Status indicator lights for ease of use (green, blue, red)

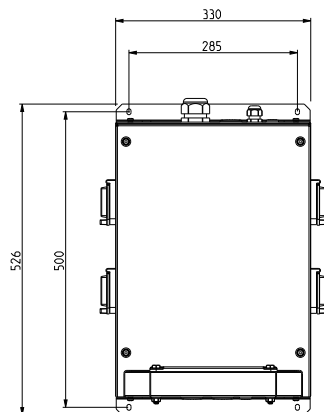
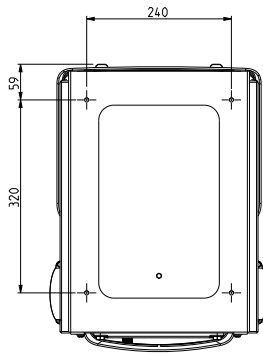
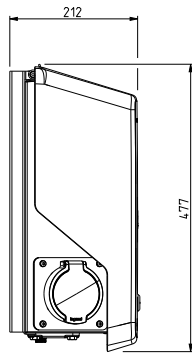


Need for customization?

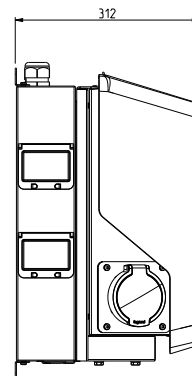
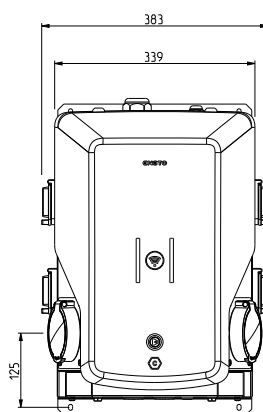
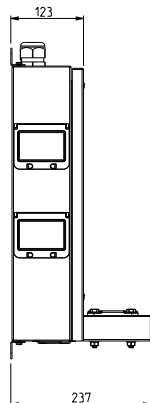
Ensto provides different product tailoring options from customized stickers and logos over to factory commissioning services. Please contact us to find a perfect solution for your needs!



EVB200B-A4BC



EVB200EB-B4BC



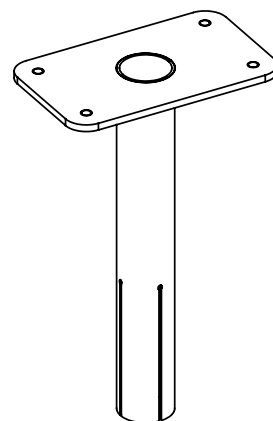
Feature	EVB100B-A4BC	EVB100B-B4BC	EVB200B-A4BC	EVB200EB-B4BC
No of charging outlets	1	1	2	2
Nominal Power	1x22kW	1x22kW	2x22kW	2x22kW
Nominal charging current	3x32A	3x32A	3x32A	3x32A
Connector type	Mode 3/Type 2	Mode 3/Type 2	Mode 3/Type 2	Mode 3/Type 2
IP class	IP54	IP54	IP54	IP54
IK class	IK10	IK10	IK10	IK10
Communication ¹⁾	4G, LAN, Wifi	4G, LAN, Wifi	4G, LAN, Wifi	4G, LAN, Wifi
OCPP1.6-JSON	•	•	•	•
DLM, mDLM ²⁾	•	•	•	•
ISO15118	•	•	•	•
RFID reader	•	•	•	•
Energy meter (MID class)	•	•	•	•
RCBO	-	•	-	•
6mA RDC-DD	•	•	•	•
Mode3 lock release	•	•	•	•

- Included on the product as standard
- Not available

¹⁾ Communication: 4G (LTE, micro SIM), LAN (Ethernet), Wifi (2,4GHz)

²⁾ DLM, mDLM: Embedded load management functionality. Does not include external meters (if needed for the installation).

Mechanics	Installation
IEC 61851-1:2019 compliant	Wall installation (as default)
Cover material: ▶ Plastic (PETG, ABS), white and black front sticker Frame material: ▶ Powder coated mild steel (RAL7021 "Anthracite")	Pole installation with optional EVTL accessories: ▶ EVTL43.00 (EVB mounting pole) ▶ EVTL44.00 (EVB adapter for concrete base)
Ingress resistance class: ▶ IP54	Extension box product variant with both upwards/downwards supply cable feed options
Impact protection class: ▶ IK10	Supported electricity grid: ▶ TN (3-ph, 400VAC) ▶ IT (1-ph, 230VACp-p)
Ambient temperature range: ▶ -25 °C - +50 °C	Connection terminals: ▶ L1-3, N, PE Cu 2.5-16 mm ²



EVTL44.00



EVTL43.00



Smart, easy and fast charging wherever people move. Ensto Wallbox offers wide range of possibilities in one beautiful package!



Ensto enables smart EV charging for everyone!

	HOME CHARGING			WORK CHARGING		PUBLIC CHARGING	
	Ensto One Home	Ensto One	Ensto Wallbox	Ensto Pro	Ensto Media		
1-PHASE	x	x	x	x	x		
3-PHASE	x	x	x	x	x		
KW / OUTLET	3,6 / 7,4 / 11 / 22	3,6 / 7,4 / 11 / 22	22	22	22		
SMART	Local load management	x ³⁾	x	x	x		
DATA CONNECTION	-	Ethernet	4G/LAN/Wifi	4G/LAN/Wifi	LAN/4G		
FIXED CABLE	x	-	-	-	-		
CABLE RELEASE	-	x	x	x	x		
NEEDED RCD	A or built-in ¹⁾	built-in	A or built-in ¹⁾	built-in	built-in		
CHARGING OUTLETS	1	1	1-2	2	2		
USER CONTROL	x ¹⁾	x ⁴⁾	x ⁴⁾	x ⁴⁾	x ⁴⁾		
LOAD MANAGEMENT	-	x ²⁾	x	x	x		
MID-METER	-	x	x	x	x		

1) Ensto Charger Control app
 2) Cloud based, internet access mandatory
 3) Cloud-based OCPP communication for EV Operators
 4) In-built RFID reader, EV Operator specific solutions via OCPP

Where We Can Help?

Ensto provides smart EV charging solutions with solid experience



Public EV charging

For over 15 years, we have been at the forefront in providing reliable and high-quality commercial EV charging solutions. Our robust public charging stations have IP54/IK10 classifications, ensuring durability and safety. They have a full 22kW capability, flexible installation options and convenient operation to meet your charging needs.

Our top-notch products provide professional features and services that help optimize operational expenses. Through OCPP communication and built-in smart features, our solutions can provide a wide spectrum of technical functionalities to do that.

We know the importance of load management in ensuring charging availability and minimizing the impact on power grid. Our solutions can accommodate varying power limitations, allowing for efficient charging while maintaining grid stability.

Ensto's EV charging solutions are future-proof with advanced communication and ISO15118 compliance, ensuring compatibility with evolving technologies. We also provide customization and tailoring options to meet your specific requirements.

Smart EV charging solutions

Ensto's Smart EV charging solutions offer efficient, convenient, and cost-effective charging experiences. Our charging stations enable EV Operators to activate different options for user identification and payment solutions in means of RFID and mobile apps. Mode 3 as well as Plu&Charge communications are supported between EV and charging point. Interfaces between charging point and back-end service provider are available via OCPP communication.

Ensto Wallbox and Ensto Pro charging stations integrate seamlessly with buildings and electrical networks by using local communications options. Our solutions offer various local integration options, such as Modbus TCP/IP, EEBUS, parking sensors, solar energy, dry contact and more. These features provide flexibility and enhanced functionality to meet specific needs and ensure a seamless charging experience.

Furthermore, Ensto charging stations support powerline communication interface (PLC), which enables future ISO15118 use cases, including customer and vehicle identification, optimized charging, smarter load management and EV's battery use as energy supply.

Safety in EV Charging

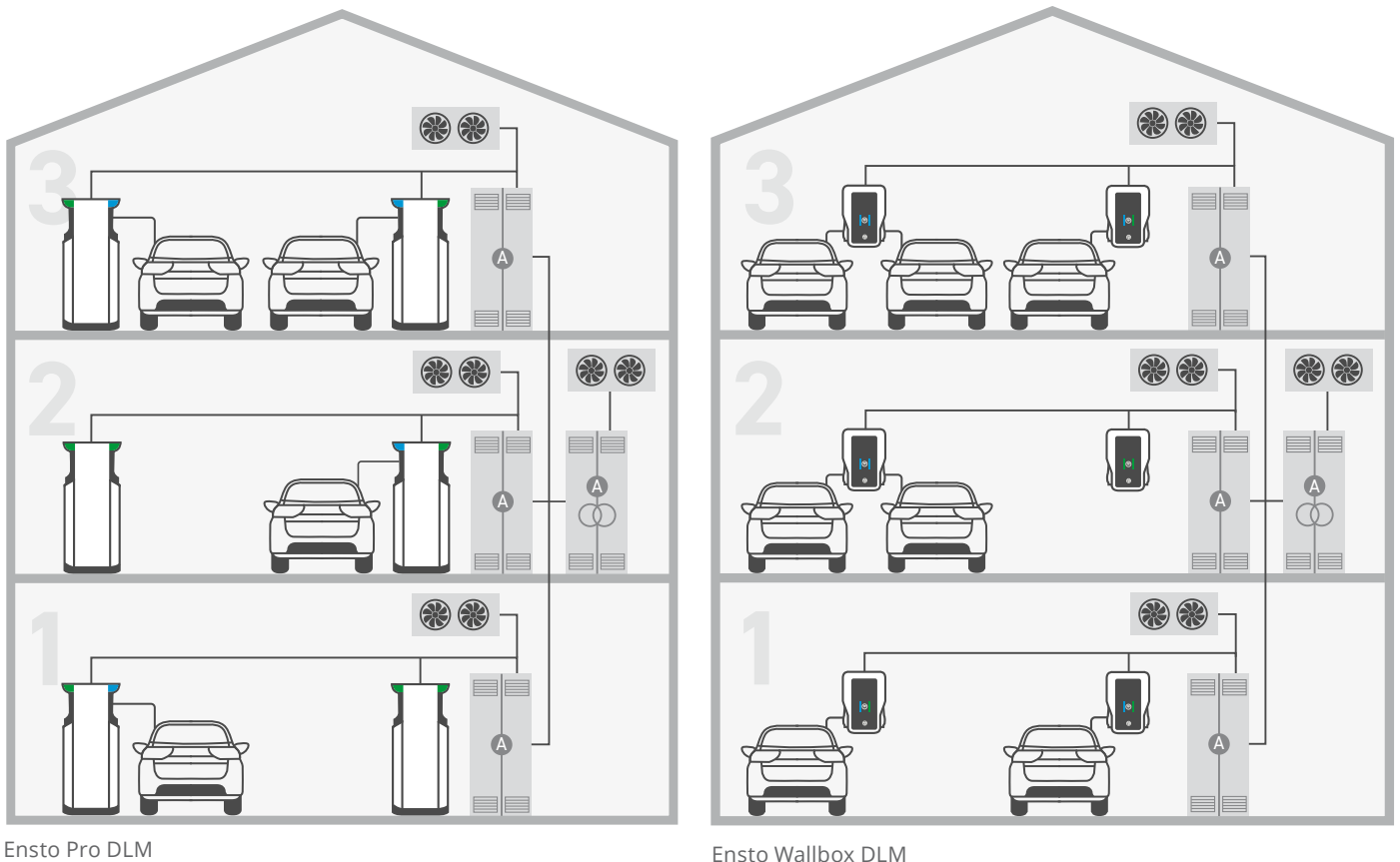
Precautions and measures need to be taken to ensure the safe operation of the charging process. It is essential to prevent accidents, protect people and properties, and ensure cybersecurity. To achieve that, proper design, installation, and adherence to standards are crucial.

Ensto Wallbox and Ensto Pro charging stations are designed to meet the latest EV charging requirements and standards. They feature integrated safety mechanisms such as DC residual current detection, Mode 3 lock release, voltage monitoring, and overcurrent detection.

In terms of cybersecurity, Ensto charging stations support regular threat mitigations and firmware updates. Customers may use dedicated M2M/VPN services for even more secured data communication. Access control and password practices are also available to ensure secure usage of the charging infrastructure.

Load management in EV Charging

Convenient charging with optimized energy consumption



Grid connection



Level 1-2 meters



Other loads

Load management in electric vehicle charging optimizes power distribution among charging points, ensuring maximum power to the vehicle. It can be implemented at the individual charging station level or as dynamic load management (DLM) for a group of stations. DLM adjusts power allocation to balance the load and prevent overloading.

Ensto DLM is a smart software solution that supports various meter models and is scalable up to any number of charging stations. A primary charger controls

multiple stations via Ethernet network. It shares available power between them and can make real-time adjustments according to total power available.

Additional to standard DLM, a multi-level dynamic load management (mDLM) can be implemented to provide common load management solution for different distribution levels (to regulate power usage across grid connection and distribution boards, where installation may include more than one external metering levels.

Ensto Wallbox and Ensto Pro offer state-of-the-art energy management. They optimize energy consumption and reduce implementation costs by regulated power usage. Our charging solutions are expandable and future-proof. They are smart and reliable choices for businesses and industries looking to optimize their energy consumption and reduce their carbon footprint.