

wallbox 



Wallbox eM4

Future-proof charging for businesses

Your solution for commercial and semi-public charging

Home charging for condominiums and company cars

The Wallbox eM4 offers an ideal charging solution for apartment buildings requiring **centralized energy billing** and for employees needing **automatic reimbursement** when charging company cars at home.

CONDOMINIUMS



EMPLOYEE CHARGING



All eM4s installed by trained technicians have:

Company charging for employees, visitors and fleet vehicles on-site

Deploying multiple chargers at once in company premises is as easy as it gets with **eM4's Controller - Extender charging stations**. Every Controller can control up to 30 charging points in a charging group or up to **100 charging points** with multi-groups.

WORKSPACES



FLEET DEPOTS



Semi-public charging for customers

Charging has to be intuitive and it can be as easy as just plugging in an EV to start charging with eM4's **Plug&Charge¹** functionality or using the **RFID card reader** with **sound feedback** to identify successful access.

RETAIL & HOSPITALITY



PUBLIC



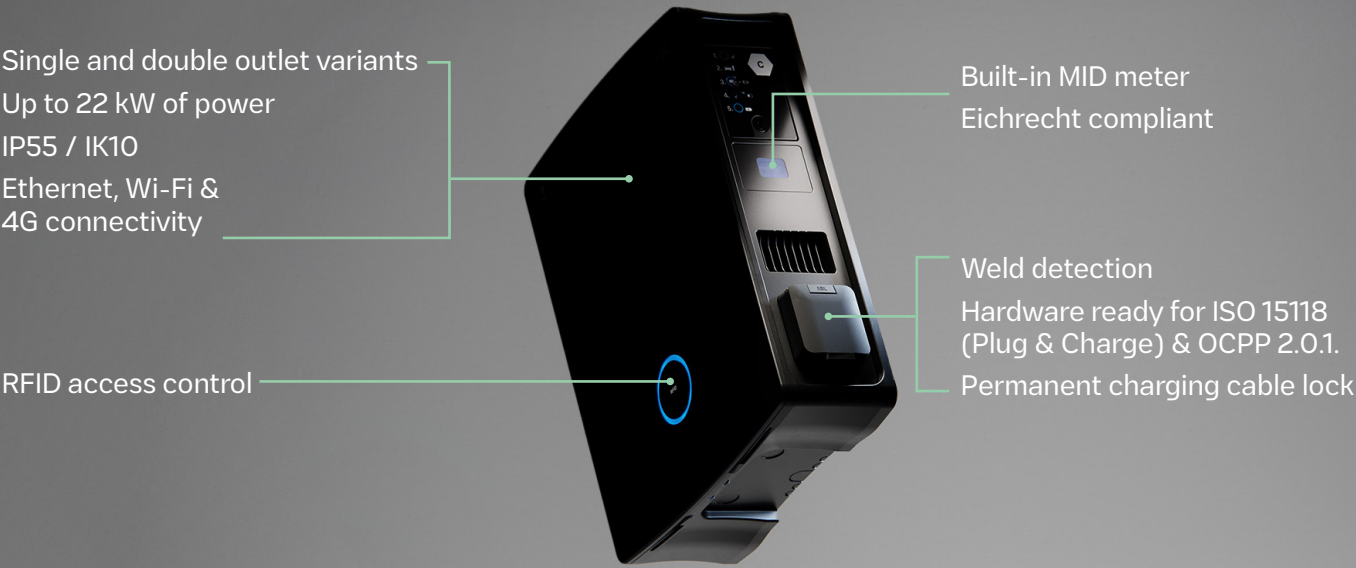
2 Years Warranty

Extendable up to 5 years with Wallbox Care.

¹ ISO 15118 Hardware Ready

Designed to last and perform

eM4 features state of the art hardware to ensure your charging solution will last and conform with new EV charging standards.



User-centric design for drivers

Charger status is easily communicated by the LED ring while RFID access triggers sound feedback. Users also benefit from Plug&Charge readiness.



Multi-charger installations

Controller and Extender units enable both wired and wireless charging groups, simplifying charging settings, commissioning and operation.

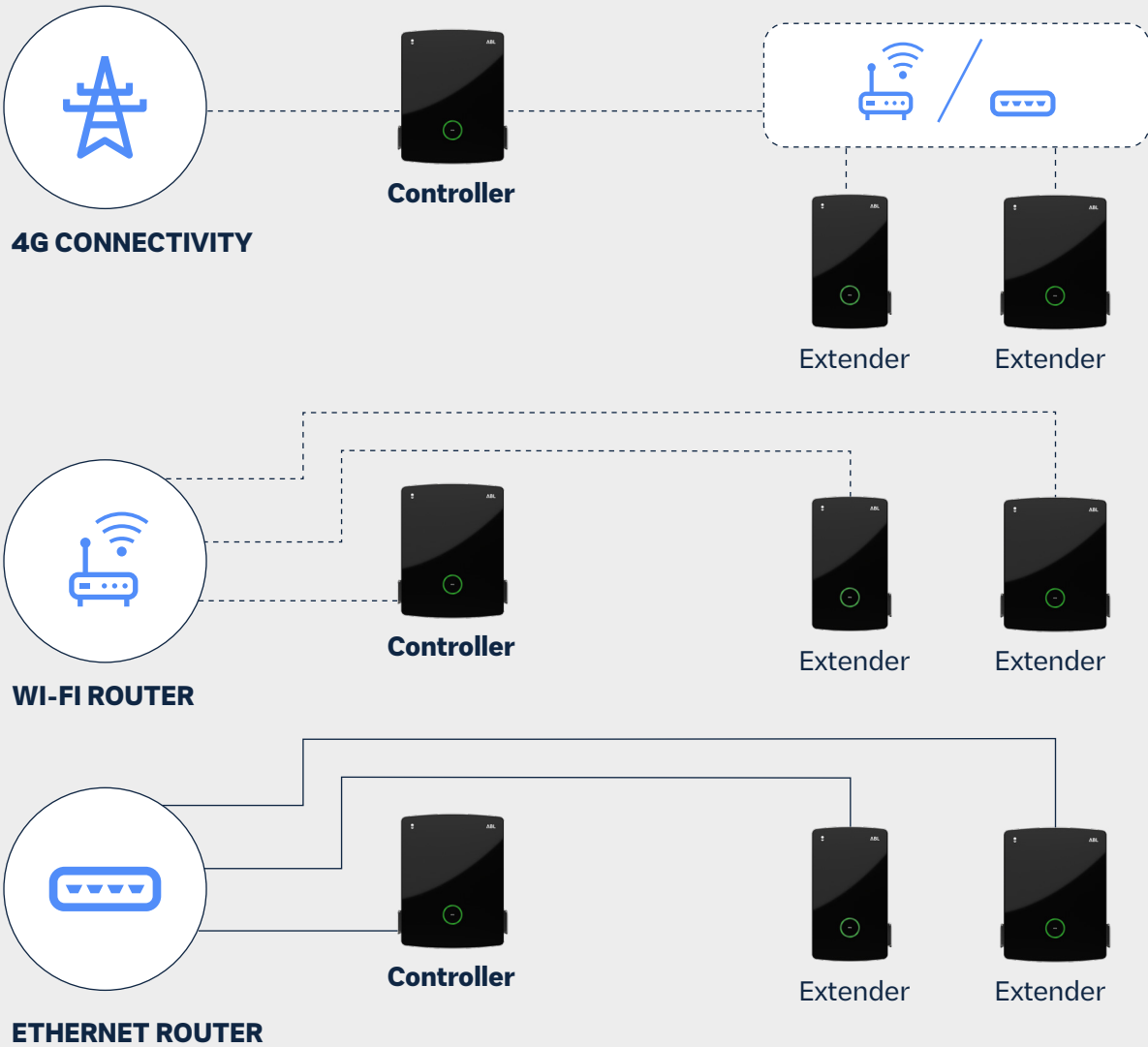
SET UP CHARGING GROUPS

- eM4 Controllers create charging groups to manage up to 30 charging points
- Connect a Controller and Extenders via Ethernet or Wi-Fi router to set a group
- The groups can connect to the internet through the router or a Controller with 4G connectivity
- All the chargers** in the group are **set up at once** during commissioning
- Multi-groups can be set up combining Controllers to reach up to 100 charging points

SET UP LOAD MANAGEMENT FOR CHARGING GROUPS

- Static Load Management for single and multi-groups of up to 100 charging points
- Dynamic Load Management for single groups of up to 30 charging points with an ABL Meter

MULTIPLE CONNECTIVITY OPTIONS



Mechanical installations in less than 10 minutes

Fast installations are made possible through various wiring layouts and quality-of-life wiring measures.

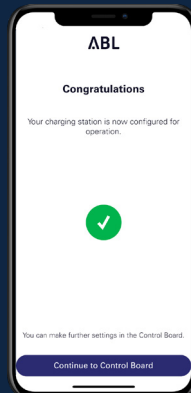
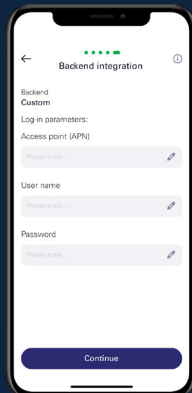
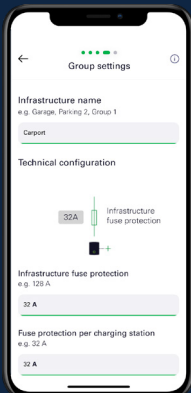
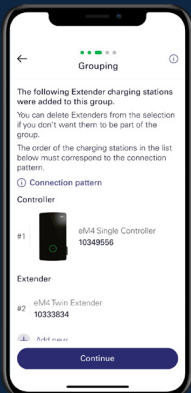
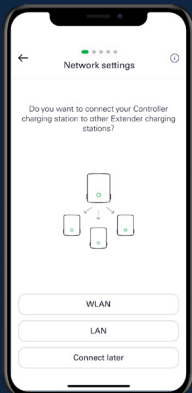
- Top, bottom and rear power cables entry
- Software configurable power modules with integrated electrical protections
- Instruction label guide for quick doubt solving
- Phase rotation guidelines to avoid phase imbalances due to charging groups



Dedicated commissioning app

Guided configuration of single chargers and charger groups through the app installation wizard.

- Network connectivity setup
- Chargers group definition
- Set for the whole group at once:
 - Power settings configuration
 - Load Management configuration
 - OCPP backend configuration



Simplified maintenance

Safe and effective on field maintenance with advanced, secure features designed with installers and CPOs in mind.



Integrated C curve type A RCBO

Reset power modules from the chargers thanks to the integrated RCBOs¹.



Innovative locking concept

The key system ensures safe and easy RCBO¹ access and internal access for trained installers.



Built-in diagnosis & troubleshooting

Defined error codes accessible from the meter display, installer app and web server with associated correction instructions.



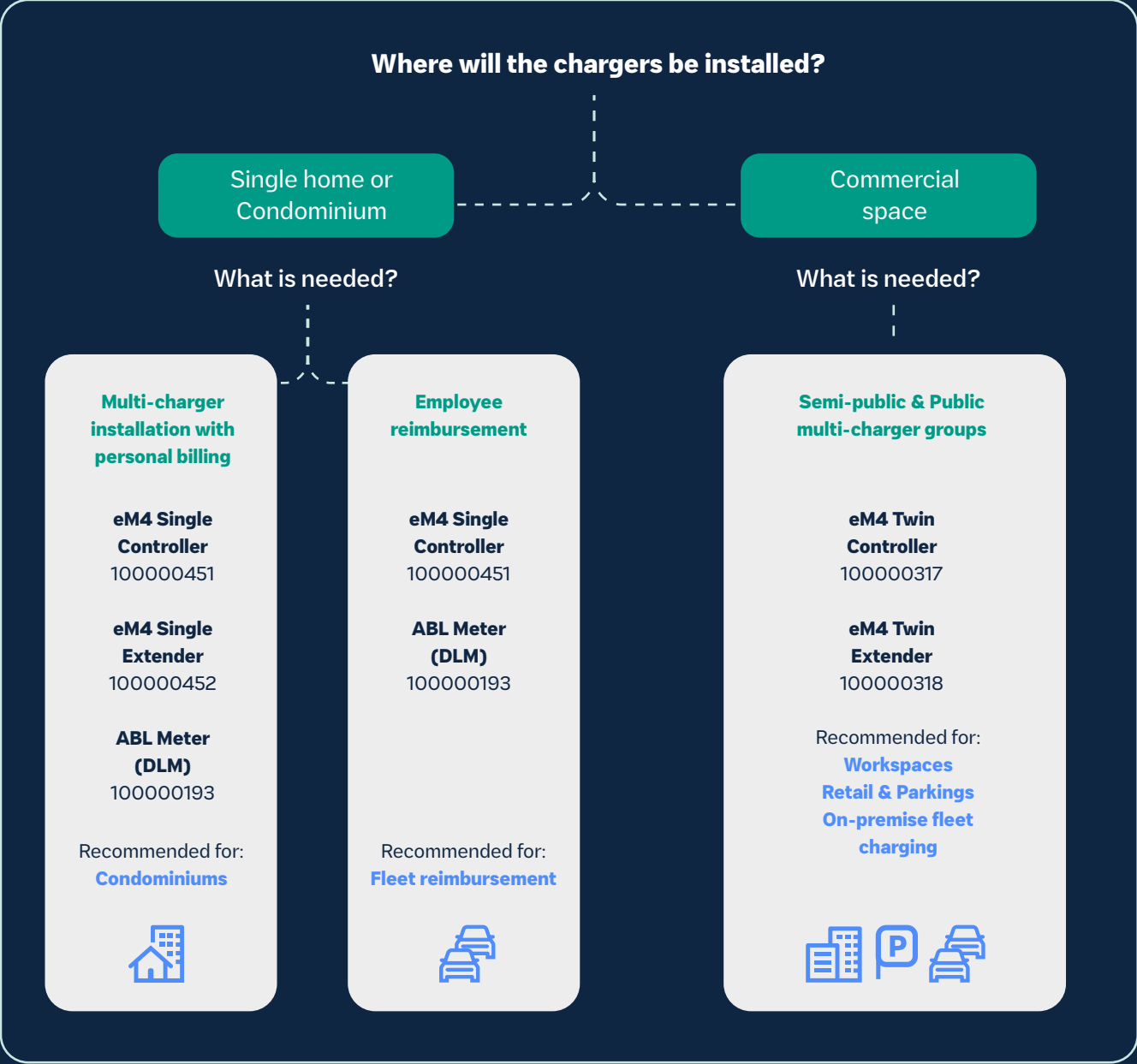
Interchangeable modules

Five interchangeable modules make the mechanics durable, and easy to manage.



¹ Only eM4 Twin units include RCBOs, eM4 Single variants feature type A RCCB.

Need help choosing your eM4?



Reference	Description	Type 2 outlets	Maximum charging power
100000451	eM4 Single Controller	1	3-Phase: 22 kW 1-Phase: 7.4 kW
100000452	eM4 Single Extender	1	3-Phase: 22 kW 1-Phase: 7.4 kW
100000317	eM4 Twin Controller	2	3-Phase: 2 × 11 kW or 1 × 22 kW 1-Phase: 2 × 3.7 kW or 1 × 7.4 kW
100000318	eM4 Twin Extender	2	3-Phase: 2 × 11 kW or 1 × 22 kW 1-Phase: 2 × 3.7 kW or 1 × 7.4 kW

Accessories

PoleM4 pedestal

- Pre-installed ready for connection
- Connection terminals and power supply for lighting integrated
- Equipped with a C-rail as standard for cable support
- Additional DIN rail for further installations
- Integrated screw points covered with blind points

Reference	Description	Compatible eM4
100000361	Pedestal	eM4 Single
100000192	Pedestal	eM4 Twin
EMH9999	Concrete Foundation	eM4 Single & eM4 Twin



Pole Slim

- Up to two Wallbox eM4s
- Compact product dimensions
- Single installations can be expanded later on with a second charger

Reference	Description	Compatible eM4	Installable chargers
100000245	Pole	eM4 Single	1, expandable to 2
100000248	Adapter plate	eM4 Single	2nd charger extension
100000246	Pole	eM4 Single	2
100000191	Pole	eM4 Twin	1, expandable to 2
100000239	Adapter plate	eM4 Twin	2nd charger extension
100000237	Pole	eM4 Twin	2
100000238	Concrete Foundation	eM4 Single & eM4 Twin	Both 1 and 2

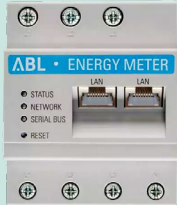


Accessories

ABL Meter

- Enable Dynamic Load Management
- Set up in commissioning
- Installable hardwired (up to 63A) or with current transformer clamps (up to 1000A).
- Single or three phase

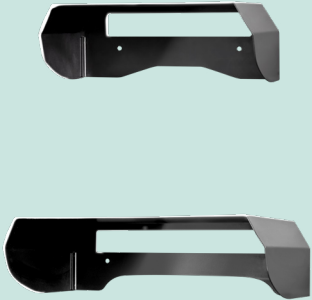
Reference	Description	Compatible eM4
100000193	Power Meter	eM4 Single & eM4 Twin



Weather cover

- Protect eM4 from rain, snow and sun
- Available for single & Twin mounting
- Installable on POLEM4

Reference	Description	Compatible eM4
WPR12	Weather cover	eM4 Single
WPR36	Weather cover	eM4 Twin



Cable holder

- Hang charging cables and dock locked Type 2 charging cables connectors
- Installable on POLEM4

Reference	Description	Compatible eM4
CABHOLD	Cable holder	eM4 Single & eM4 Twin



Datasheet

Standards / directives

IEC 61851-1
IEC 61439-7 ACSEV
VDE-AR-N 4100

Input / mains supply

External power supply

Rated voltage
Rated current
Rated frequency
Upstream fuse
Connection

Supply cables up to a maximum of 10 mm² or cable diameters ≤ 25 mm
230 / 400 V (3-phase)
32 A
50 Hz
32 A (required onsite), C characteristic recommended
Direct connection to the terminal block

Output / vehicle connection

Connection system
Output voltage
Max. charging current
Maximum charging power Single
Maximum charging power Twin

Two lockable Type 2 charging sockets in acc. with IEC 62196-2
Output voltage 230 / 400 V
32 A
3-Phase: 22 kW, 1-Phase: 7.4 kW
3-Phase: 2 × 11 kW or 1 × 22 kW
1-Phase: 2 × 3.7 kW or 1 × 7.4 kW

Protection / integrated components

RCCB (eM4 Single)
RCBO (eM4 Twin)
DC fault current detection
Energy meter
Load switching
Weld detection
Overcurrent protection
Temperature monitoring

RCCB, type A, 30 mA
RCBO, C32, type A, 30mA
Electronic, IΔn d.c. ≥ 6 mA
MID compliant
Installation contactor, 4-pole, 40 A
No charging possible with welded contactors
Integrated into firmware, disconnection at 120% after 10 seconds
Internal, charging current reduction or shut down

Communication / interfaces

Operating status indicator
Access control
EV comm.
Controller/Extender comm.
Backend comm.
Supported protocols
Load shedding
/ external release contact

LED
RFID, QR code or smartphone app
In acc. with IEC 61851-1 Mode 3
LAN, WLAN
Via Controller
OCPP 1.5 + 1.6, OCPP Smart Charging (via Controller), Modbus TCP
Potential-free contact in accordance with VDE-AR-N 4100

Operating conditions

Storage temperature
Operating temperature
Relative humidity
Class of protection
Overvoltage category
Degree of pollution
Degree of protection (housing)
Impact strength
Maximum elevation
Power dissipation

-30 to 75°C
-25 to 40°C
5 to 95%, no condensation
I
III
3
IP55
IK10
≤ 2,000 m AMSL
7 W

Want to learn more about eM4?

Contact us: sales@wallbox.com



www.wallbox.com

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