

Wallbox eM4 Single / Twin reev ready

Controller/Extender with charging socket
22 kW

The Wallbox eM4 Single reev ready / Twin reev ready is the future-proof and custom-fit charging solution for companies and private households, which is also recommended for use in the housing industry as well as in public charging parks and car parks. Up to two vehicles can be charged simultaneously at the single or two ABL Type 2 charging sockets. A connected charging cable can be permanently locked/unlocked via the app.

SIMPLE INSTALLATION AND OPERATION

The cable entry is designed flexibly so that installation can easily be carried out by one person in a short time. Configuration is quick and straightforward with the ABL Configuration app for Android and iOS, which is easy to use thanks to its intuitive user interface with visual and acoustic feedback.

TAILOR-MADE SOLUTION

The Wallbox eM4 reev ready Controller has an integrated communication and control unit. In group installations, additional charging points can be economically integrated via LAN or WLAN using the Extender variants of the eM4. Alternatively, both the Controller and the Extender variant can be operated independently. The static load management of a Controller/Extender group installation can optionally be enhanced with dynamic load management with the ABL Energy Meter accessory. Alternatively the included cloudbased reev Energy Management System can be used.

QUALITY AND SAFETY

The robust design and high-quality workmanship of the Wallbox eM4 reev ready protect it from external influences. The wallbox comes pre-installed and ready for connection thanks to the integrated Type A RCCB and DC residual current detection. All ABL wallboxes are made in Germany and comply with the highest safety standards.



FURTHER PRODUCT ADVANTAGES

-  reev Platform / OCPP connection (Controller) via LTE, LAN or WLAN
-  Group installations with up to 30 charge points, scalable to a charging cluster with up to 100 charge points
-  Standardised interfaces for integration into external systems via OCPP Smart Charging (Controller) or Modbus TCP
-  MID-compliant energy meters
-  Plug & Charge ready (ISO15118)
-  IP55 and IK10

ABL reev ready – eMOBILITY HARDWARE & SOFTWARE COMBINED

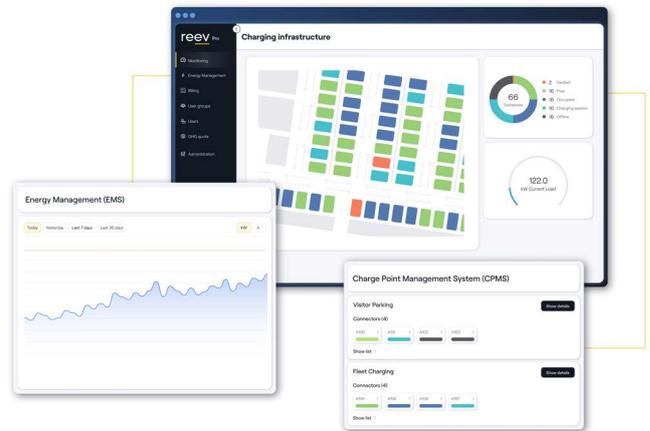
ABL reev ready charging stations offer you ABL hardware with a SIM card already inserted and a reev ready pre-configuration. After commissioning the licence variant, the Controller and associated Extender charging stations will have connectivity for two years. Activating the reev backend within this period additionally allows use of the remote service free of charge. Users can choose between different licences to activate the reev energy and charging platform. The reev ready licence keys are available separately. One licence key is required per connector.

reev ENERGY AND CHARGING PLATFORM

Get more out of your ABL charging station: The reev energy and charging platform makes your ABL reev ready wallbox more efficient, automates workflows, and simplifies energy and charging management — all in one place. With different licence options, users can choose the best fitting licences to meet their specific needs.

reev FEATURES

- Integrated cloudbased Energy Management System reduces costs, optimizes charging speed and power usage
- Easy integration and use of PV system
- AI troubleshooting reducing manual effort by 30%
- Optional: reevs dynamic electricity tariff reduces electricity costs by up to 30%



WHY ABL reev ready?

-  ABL hardware with SIM card already inserted and a reev ready pre-configuration
-  Simple activation of the reev platform through reev ready licence key
-  Out-of-the-box LTE connection for remote service (two years free of charge after commissioning)
-  Optimised and time-saving installation and onboarding of your charging infrastructure as well as comprehensive service for hardware and software

GENERAL INFORMATION

Model range	eM4 Single reev ready eM4 Twin reev ready
Commodity code	85371091
Packaging unit (PU)	1 unit
Dimensions PU	Single: 600 × 400 × 252 mm Twin: 581 × 503 × 230 mm (H×W×D)
Weight PU	Single: Approx. 10.7 kg Twin: Approx. 13 kg
Items supplied	All models: Wallbox, printed safety instructions, installation kit Additional for Controller: LTE stick with SIM card, reev RFID test key, reev RFID charging key

INPUT / MAINS SUPPLY

External power supply	Supply cable with cable cross-section up to a maximum of 10 mm ² or cable diameter ≤ 25 mm
Rated voltage	230 / 400 V (3-phase)
Rated current	32 A
Rated frequency	50 Hz
Upstream fuse	32 A, required on-site, C characteristic recommended (check national regulation for specific requirements)
Connection	Direct connection to the terminal block

OUTPUT / VEHICLE CONNECTION

Charging port in acc. with IEC 62196-2	1 or 2 lockable Type 2 charging sockets with shutter (depending on model)
Output voltage	230 / 400 V
Maximum charging current	32 A
Maximum charging power (3-phase)	Single: 1 × 22 kW Twin: 2 × 11 kW or 1 × 22 kW*
Maximum charging power (1-phase)	Single: 1 × 7,4 kW Twin: 2 × 3.7 kW or 1 × 7.4 kW

* See section **Operating conditions****PROTECTION / INTEGRATED COMPONENTS**

RCCB	RCCB, type A, 30 mA (depending on model)
DC fault current detection	Electronic, $I_{\Delta n.d.c.} \geq 6$ mA
Energy meter	MID compliant
Load switching	Installation contactor, 4-pole, 40 A
Weld detection	No charging possible with welded contactors
Overcurrent protection	Integrated into firmware, disconnection at 120% after 10 seconds
Temperature monitoring	Internal, charging current reduction or shut down

COMMUNICATION / INTERFACES

Operating status indicator	LED
Access control	RFID, QR code or smartphone app
Communication EV	In acc. with IEC 61851-1 Mode 3
Communication Controller/Extender	LAN, WLAN
Communication reev energy & charging platform	LAN, WLAN, LTE (Controller only)
Protocols for external systems	OCPP 1.5 + 1.6, OCPP Smart Charging, Modbus TCP
External release contact	Potential-free contact in accordance with VDE-AR-N 4100

STANDARDS / DIRECTIVES

IEC 61851-1 | IEC 61851-21-2

2011/65/EU | 2014/53/EU

OPERATING CONDITIONS

Storage temperature	-30 to 75°C
Operating temperature*	-25 to 50°C
Relative humidity	5 to 95%, no condensation
Class of protection	I
Overvoltage category	III
Degree of pollution	3
Degree of protection (housing)	IP55
Impact strength	IK10
Maximum elevation	≤ 2,000 m AMSL
Power dissipation	Single: 5 W Twin: 8 W

* With derating of output power depending on external temperature and conditions

HOUSING

Type	Wall-mounted housing
Fixing type	Wall mounting using installation rail and installation kit
Material (housing / cover)	Plastic
Colour (housing / cover)	Black (similar to RAL 9011 / RAL 9017)
Locking mechanism	1 or 2 integrated lever locks
Dimensions (H×W×D)	Single: 516 × 306.5 × 145 mm (W: 290 mm without protrusions) Twin: 516 × 428 × 145 mm (W: 395 mm without protrusions)
Weight (net)	Single: Approx. 7.2 kg Twin: Approx. 10.5 kg

MODEL OVERVIEW

	Product number	Calibration law compliant	Shutter Socket	Manufacturer number	EAN number
eM4 Single Controller reev ready	100000200	No	Socket	4WS-22CNS2	4011721193298
	100000202	Yes	Socket	4WS-22CES2	4011721193311
	100000204	No	Shutter	4WS-22CNH2	4011721193335
eM4 Single Extender reev ready	100000201	No	Socket	4WS-22ENS2	4011721193304
	100000203	Yes	Socket	4WS-22EES2	4011721193328
	100000205	No	Shutter	4WS-22ENH2	4011721193342
eM4 Twin Controller reev ready	100000180	No	Socket	4WT-22CNS2	4011721191379
	100000182	Yes	Socket	4WT-22CES2	4011721191430
	100000184	No	Shutter	4WT-22CNH2	4011721191393
eM4 Twin Extender reev ready	100000181	No	Socket	4WT-22ENS2	4011721191386
	100000183	Yes	Socket	4WT-22EES2	4011721191447
	100000185	No	Shutter	4WT-22ENH2	4011721191409

OPTIONAL ACCESSORIES

eM4 Single reev ready



POLEM4 Single mounting pole*
100000361



POLE Slim mounting pole for one eM4 Single*
100000245



POLE Slim mounting pole for two eM4 Single*
100000246



Weather protection roof
WPR12

eM4 Twin reev ready



POLEM4 Twin mounting pole*
100000192



POLE Slim mounting pole for one eM4 Twin*
100000191



POLE Slim mounting pole for two eM4 Twin*
100000237



Weather protection roof
WPR36

* Charging station available separately

eM4 Single reev ready | eM4 Twin reev ready



reev ready Pro licence key
100000189



Cable storage holder with charging plug adapter
CABHOLD



ABL Energy Meter
100000193



Individual lock (different locking circuits)
100000214, [...], 100000230



RFID key fob
100000253



Type 2 charging cable (various cable lengths)
CC2010, [...], CC3275



Type 2 to Type 1 adapter cable
LAKK2K1

PRODUCT DIMENSIONS



Subject to change: All performance characteristics, technical and other specifications are subject to change without prior notice.

ABL GmbH · Albert-Büttner-Straße 11 · D-91207 Lauf / Pegnitz · Tel. +49 (0) 9123 188-0 · info@abl.de · www.abl.de · www.ablmobility.de
reev GmbH · Sandstraße 3 · 80335 Munich · Tel. +49 (0) 89 215 389 70 · info@reev.com · www.reev.com