

Kathrein E-mobility

Wall box for domestic, commercial and public applications

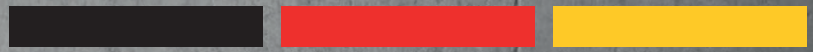




Kathrein. Reliable. Innovative. Professional.

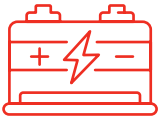
Kathrein is a mark of quality established for more than 100 years and is a company with a rich heritage that delivers innovative technologies - Made in Germany. Continuing the long company history and true to its market-leading commitment to quality, Kathrein is helping to shape the future of electric mobility. Innovative solutions for customer-oriented charging infrastructures are making a significant contribution to sustainable energy solutions. The E-mobility business unit supplies charging solutions and services, calling on the extensive technological knowledge, development expertise and manufacturing capabilities of the Kathrein group. This end-to-end value chain guarantees "Made in Germany" quality for customers and partners.

Tradition meets future



Made in Germany

> Key facts at a glance

**Power ranges:**

11 and 22 kW,
automatic phase switching

**Networking:**

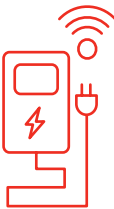
OCPP, TCP/IP,
LAN, WiFi, LTE

**Key functions:**

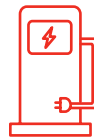
Load management,
PV surplus charging,
single and cluster mode

**Compliance with German calibration law:**

MID meter, MessEG
and MessEV

**Future-proof:**

Modular platform with
scalability, upgrade capability,
customised versions

**Accessories:**

Mounting stands,
fittings

**Conformity:**

CE, VDE

**Colours:**

Individual colour scheme
on request





> Domestic applications

Single-family dwelling

- Charging point with 11 kW or 22 kW charging power – With integrated cable or socket
- Authentication via RFID and app
- Access/networking via LAN, WLAN or LTE
- Optional: Energy measurement using MID-certified meter
- Monitoring/documentation/archiving of charging process via app/web
- Basic management functions for networking with PV systems

Multi-dwelling unit

- Clear assignment of apartment to parking space/charging point
- Each parking space with MID-certified measuring system
- Alternatively: Charging point integrated via apartment meter
- Load management for cluster mode
- Automated cluster configuration using self-organising mesh functionality

> Commercial applications

Employee parking area (e.g. company car park)

- Charging point with 11 kW or 22 kW charging power – With integrated cable or socket
- Authentication via RFID and app
- Access/networking via LAN, WLAN or LTE
- Energy measurement using MID-certified meter
- Load management for cluster mode
- Automated cluster configuration using self-organising mesh functionality
- Interface to back-end systems
- Monitoring/documentation/archiving of charging process via app/web
- Basic management functions for networking with PV systems

Employee and customer parking area (e.g. hotel car park)

- Also available as overall system complying with calibration law if required

> Public applications

Publicly accessible parking area (e.g. customer car park, multi-storey car parks)

- Charging point with 11 kW or 22 kW charging power – With integrated cable or socket
- Authentication via RFID and app
- Access/networking via LAN, WLAN or LTE
- Energy measurement using MID-certified meter
- Load management for cluster mode
- Automated cluster configuration using self-organising mesh functionality
- Interface to back-end systems
- Monitoring/documentation/archiving of charging process via app/web
- Basic management functions for networking with PV systems
- Overall system complying with German calibration law



> General data

General data		
Operating voltage (1L1N / 3L1N)		
Operating current 11 kW		
Operating current 22 kW		
Dimensions (L x W x H) [mm]		
Cable length		
Function	KWB-AC20	KWB-AC40
Charging power - 11 kW 22 kW	✓ ✓	✓ ✓
Connection – Cable Socket	✓ -	✓ ✓
DC fault current detection (6mA)	✓	✓
Automatic phase switching	✓	✓
Charging mode 3 (IEC 61851-1 – CP/PP)	✓	✓
Plug & charge (ISO 15118 – Power Line)	Extendable*	✓
User authentication – RFID	✓	✓
Energy meter (certified to MID)	-	✓
Networking – LAN	✓	✓
Networking – WLAN	✓	✓
Networking – LTE (expandable to 5G)	-	Extendable*
Networking – MODBUS EEBUS	✓ ✓	✓ ✓
OCPP 1.6 (management interface)	-	✓
Photovoltaic surplus charging	Extendable*	✓
Load management	Extendable*	✓
Cluster mode (master/slave)	Extendable*	✓
App / web interface	✓	✓
Compliance with German calibration law	-	-

*) Extension possible with corresponding upgrade package



220 ... 240 VAC

3 x 16 A max.

3 x 32 A max.

300 x 440 x 159/139

5 m or 7.5 m

Versions complying with German calibration law

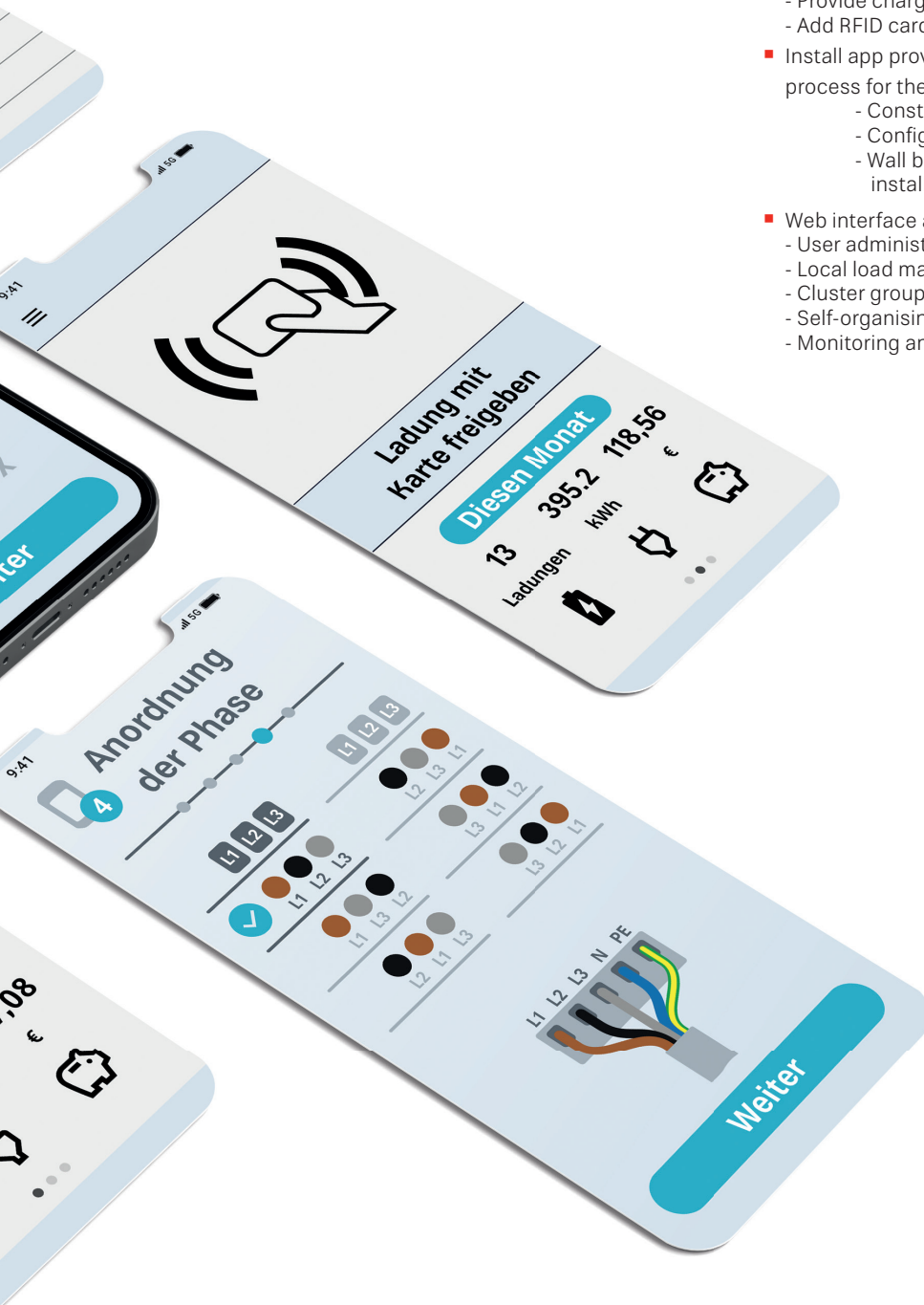
KWB-AC60	KWB-AC40E	KWB-AC60E
✓ ✓	✓ ✓	✓ ✓
✓ ✓	✓ ✓	✓ ✓
✓	✓	✓
✓	✓	✓
✓	✓	✓
✓	✓	✓
✓	✓	✓
✓	✓	✓
✓	✓	✓
✓	✓	✓
✓	Extendable*	✓
✓ ✓	✓ ✓	✓ ✓
✓	✓	✓
✓	✓	✓
✓	✓	✓
✓	✓	✓
✓	✓	✓
-	✓	✓



Your app. Easy. Intuitive. Everywhere.

> App & web applications

- Provision of specific functionalities for end users, installers and operators using dedicated user app, install app and web interface
- For example, user app can
 - Control the charging process
 - Provide charging statistics
 - Add RFID cards
- Install app provides guidance for the installation process for the charging point in terms of
 - Construction
 - Configuration
 - Wall box commissioning, and creates an installation report
- Web interface acts as the management level for
 - User administration
 - Local load management
 - Cluster grouping
 - Self-organising cluster mesh functionality
 - Monitoring and statistics functions



Your specialist trade partner:

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Photos

Title & 3D visualisations

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