

# Data sheet

## DUO

As an all-in-one charging station, all components are already integrated in the DUO product family. The professional charging solution is ideal for use at publicly accessible charging points and for networked operation in companies, as it fulfils the AFIR regulations. The bright 4.3" display enables the display of secure QR codes for direct payment.

Alternatively, charging processes can be authorised via RFID card or app. It is characterised by a durable housing that will never rust. The charging station is particularly efficient in terms of installation and running costs. It has an automatically resettable Service RCD. The DUO is available in versions with two type 2 sockets (up to 22 kW) or with two spiralised type 2 charging cables (up to 11 kW). The DUO enables connectivity via LAN and mobile radio. The connection to a freely selectable backend is made via OCPP 1.6 JSON.

The DUO is also available in a calibration law-compliant version and as a DUO fleet variant with Compleo Power Rail technology.



# Highlights

- Charging with up to 2x 22 kW AC
- Optional with integrated Power-Rail-Technology
- Optional with integrated Ethernet switch with four free ports
- Giro-e able
- Optional calibration law-compliant billing via SAM storage and display module
- Convenient single-hand operation
- LAN and 4G connectivity
- All protective components integrated
- Increased protection from vandalism due to highly impact resistant fibreglass reinforced plastic enclosure (IK10 rating, incl. display)
- Frontaccess point for connection and servicing
- Connection to IT backends via: OCPP 1.6J
- Energy/load management: Modbus protocol
- RCD self-test functionality
- RCD resetable with sliding cover

# Accessories

- SMC base + base filler granulate
- Installation kit  
For installation without prefabricated base

# Technical data

## General

|                                |   |
|--------------------------------|---|
| Charging mode                  | AC, mode 3  |
| Number of charging points      | 2   |
| Charging connector             | 2x type 2 socket, incl. sliding cover                                     |
| IT backend connection          | OCCP 1.6 JSON   |
| Authorisation                  | Free charging, RFID, smartphone app, optional: Giro-e                     |
| Package dimensions (H x W x D) | 1,650 x 800 x 1,200 mm,<br>up to six charging stations on one Euro pallet |

## Mechanical details

|                        |  |
|------------------------|--|
| Mounting type          | Base mounted (bm)  |
| Enclosure material     | Sheet moulding compound (SMC)                                  |
| Surface                | Painting: enclosure RAL 7016, textured paint                   |
| Lock                   | Swivelling lever, built-in space for one profile half cylinder |
| Dimensions (H x W x D) | 1,441 x 400 x 225 mm   |
| Weight                 | Approx. 38 - 40 kg, depending on added options                 |

## Electrical data

|  |  |
|--|--|
| Maximum charging output per charge point             | 22 kW: Type 2 socket;<br>11 kW: Type 2 spiral cable  |
| Nominal voltage, number of phases, nominal frequency | 400 V; 3; 50 Hz  |
| Maximum input current                                | 32 A / 63 A per phase, configurable  |
| Maximum output current                               | 32 A   |
| Device power consumption in standby mode             | < 13 W   |
| Connections  | 5-pole connection via main switch and PE terminal<br>(up to 35 mm <sup>2</sup> ); optional with integrated busbar system (Power-rail technology) |
| Earthing system                                      | TN, TT   |
| Protection   | 2x RCD type A; 2x DC residual current detection 6 mA;<br>2x circuit breaker C20 3P or C40 3P; 1x circuit breaker B16 1P                          |
| Overvoltage protection                               | Type 1+2+3 compliant with DIN EN 61643-11  |
| Protection class                                     | 2  |
| Welding detection                                    | 2x hardware-based redundant cut-off  |
| Measurement accuracy                                 | Class A (DIN EN 50470)   |
| Power factor $\cos\phi$                              | 0,90 - 1   |
| Calibration law                                      | The measurement accuracy of this meter is guaranteed only<br>from a minimum output energy quantity of 1 kWh                                      |

# Technical data

## Connectivity

|  |  |
|--|--|
| Communication interface to IT backends               | LAN, mobile data network (2G/4G)           |
| Protocols for communication with IT backends         | OCPP 1.6 JSON                              |
| Protocols for communication with third-party devices | Modbus TCP/IP                              |
| Update capability                                    | LAN, mobile data                           |
| User interface                                       | -  |
| Status display                                       | LED status indicator for each charge point |
| Display  | Size: 4.3" display                         |

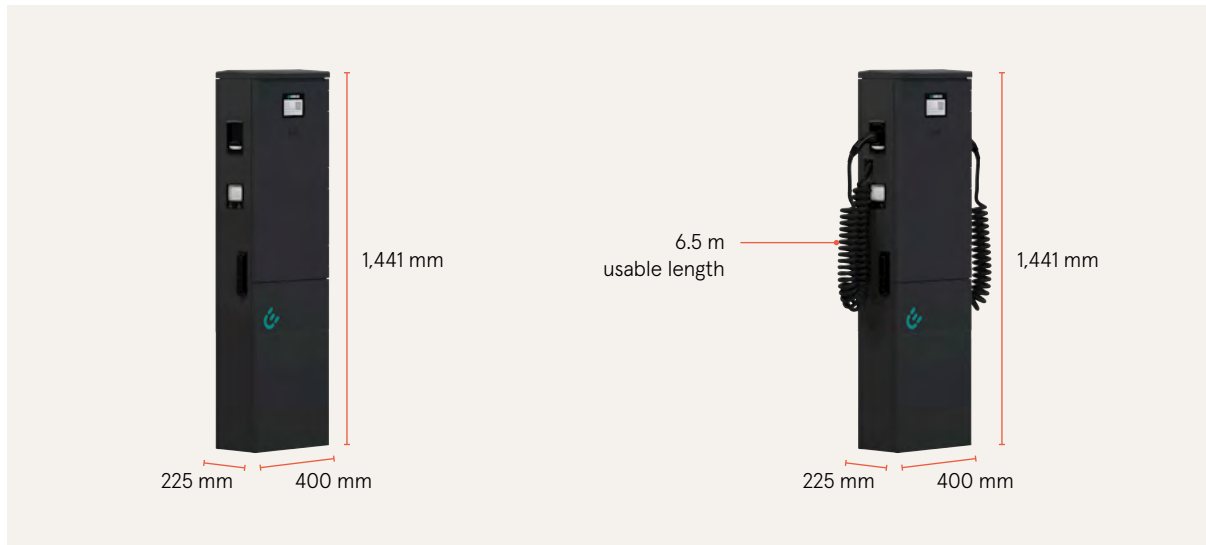
## Certification

|                                |   |
|--------------------------------|---|
| IP protection class            | Enclosure: IP44; relevant components: IP54                                    |
| Impact resistance              | IK10  |
| Meter / German calibration law | 2x MID-compliant smart meter;<br>optional with SAM storage and display module |
| Approvals                      | CE, RoHS, REACH, GPSD, WEEE   |
| Standards                      | DIN EN 61851-1; DIN IEC/TS 61439-7  |

## Environmental conditions

|                                     |                           |
|-------------------------------------|---------------------------|
| Storage temperature                 | -25 °C to +50 °C          |
| Environmental operating temperature | -25 °C to +40 °C          |
| Humidity                            | < 95 % (non-condensing)   |
| Degree of pollution                 | 3                         |
| Areas of use                        | Internal & external areas |
| Operating altitude above sea level  | 2,000 m max.              |

## Measurements



## Illustrations/model variants





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The power to move



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Technical changes and errors excepted.