Data sheet
DUO

Article no. i00022498, i00022947, i00022500, i00022499, i00022502, i00022501

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	OCPP 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, 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; 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 (up to 35 mm²); optional with integrated busbar system (Power-rail technology)
Earthing system	TN, TT
Protection	2x RCD type A; 2x DC residual current detection 6 mA; 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 cosφ	0,90 - 1
Calibration law	The measurement accuracy of this meter is guaranteed only 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; 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

1,441 mm

225 mm   400 mm

6.5 m
usable length

1,441 mm

225 mm   400 mm
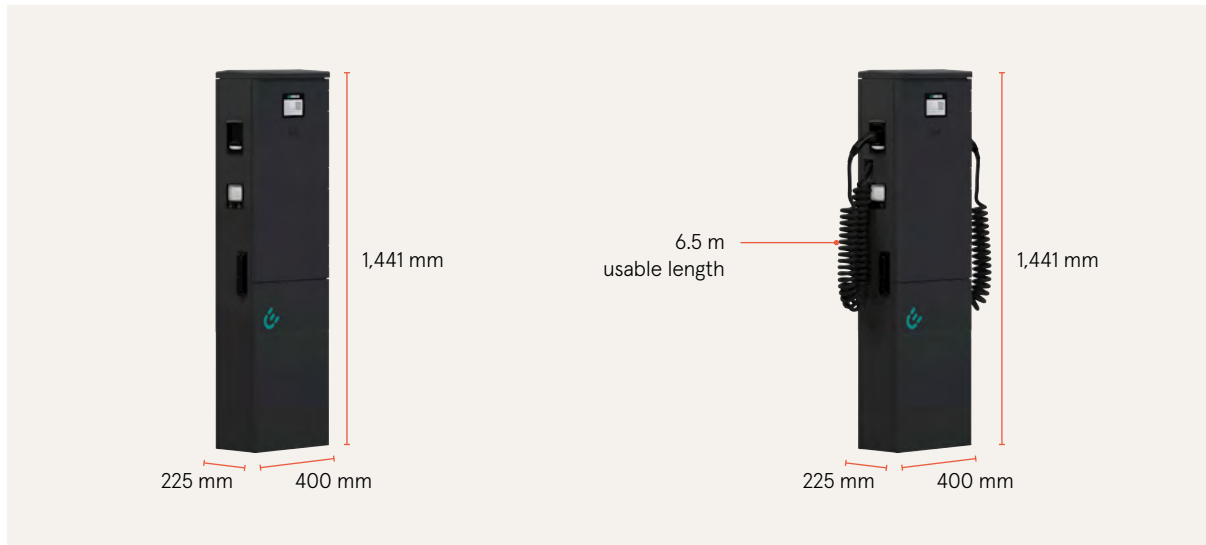
Illustrations/model variants

DUO outdoor	DUO outdoor	DUO fleet	DUO fleet	DUO fleet	DUO fleet
(Article no. i00022498)	(Article no. i00022947)	(Article no. i000229500)	(Article no. i00022499)	(Article no. i00022502)	(Article no. i00022501)

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Technical changes and errors excepted.

The power to move