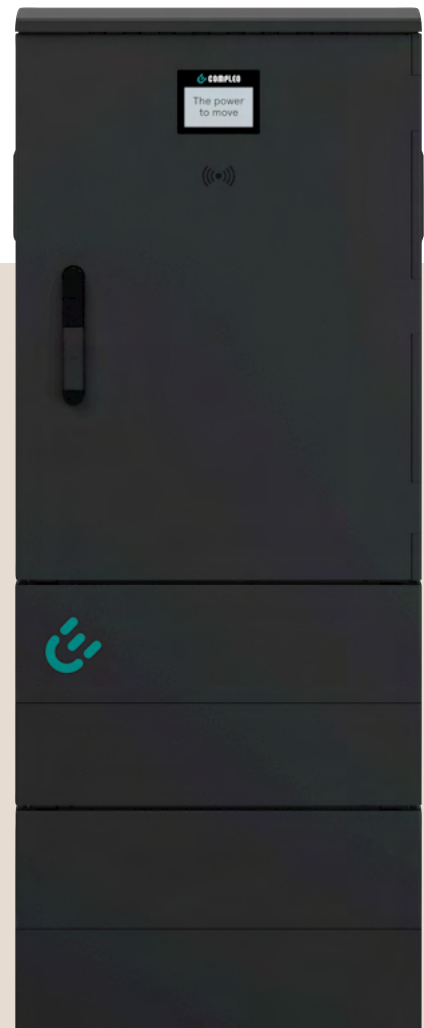# Data sheet
DUO ims

Model: socket, calibration law-compliant, 2x BKE-I
Article no. i00020480

The DUO ims was specially developed for direct connection to the public distribution grid. As an all-in-one charging station, all components are integrated, saving installation time and costs.

With the DUO ims, the requirements of the AFIR, calibration law, the German charging station ordinance and VDE-AR 4100 are ideally implemented: Billing via the SAM module in compliance with calibration law offers users maximum transparency. The bright 4.3'' display of the DUO ims enables the display of secure QR codes for direct payment. Alternatively, charging processes can be activated via RFID card or app.

Thanks to two integrated fastening and contacting units for mounting electronic household meters (2x BKE-I), a power input of up to 2x 32 A is possible for both charging points.

Highlights

- Charging with up to 2x 22 kW AC

- Flexible load distribution between charging points

- Giro-e able

- payment according to AFIR

- Calibration law-compliant billing via SAM storage and display module

- Convenient single-hand operation

- LAN and 4G connectivity

- All components required to comply with VDE-AR-N 4100 fitted

- 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

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
Package dimensions (H x W x D)	1,700 x 800 x 1,200 mm, up to two 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 with double lock, built-in space for two profile half cylinders
Dimensions (H x W x D)	1,483 x 590 x 320 mm
Weight	Approx. 68 kg

Electrical data

Maximum charging output per charge point	22 kW: Type 2 socket
Nominal voltage, number of phases, nominal frequency	400 V; 3; 50 Hz
Maximum input current	63 A per phase, configurable
Maximum output current	32 A
Device power consumption in standby mode	< 13 W
Connections	House connection box with steel frame terminals (10 to 95 mm²) Equipotential bonding rail with connection for local earth electrode
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
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 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

1,483 mm

320 mm   590 mm

Illustrations/model variants

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Technical changes and errors excepted.

The power to move