

# Data sheet

## DUO ims

**Model: socket, calibration law-compliant,  
Three-point meter, payment terminal (VR-Payment)**

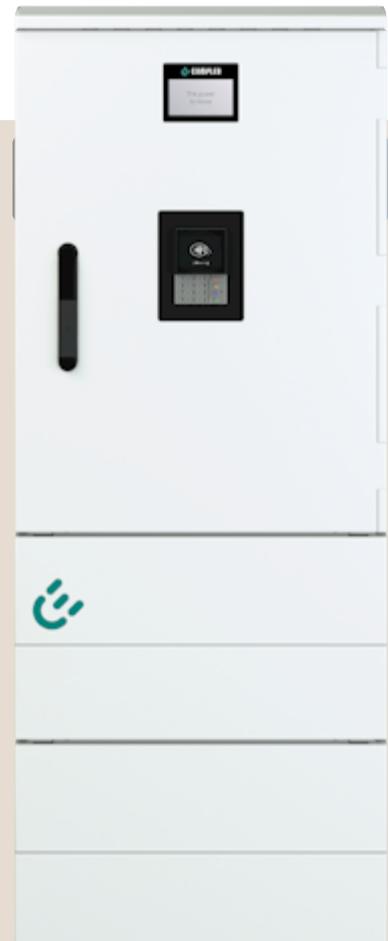
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The DUO ims was developed especially for direct connection to the public distribution grid in Germany. As an all-in-one charging station, all components are integrated, saving installation time and costs.

With the DUO ims, the requirements of calibration law and technical regulations in the German market as well as European AFIR requirements are ideally implemented. The calibration law-compliant billing via the SAM module offers users maximum transparency.

The integrated payment terminal of the DUO ims is ready for activation via charging cards or direct payment via smartphone, credit card and girocard and it offers a pin pad.

The DUO ims enables ISO 15118 communication - including ISO 15118-2. The integrated three-point meter perfectly implements local grid connection requirements and enables with a maximum input current of up to 44 A a total power of up to 30 kW for both charging points.



# Highlights

- Direct connection to the public distribution network with connection panel for three-point meter
- All components installed to comply with VDE-AR-N 4100
- All protective components integrated
- Increased vandalism protection thanks to glass fibre reinforced plastic housing with high impact resistance (IK10, incl. display)
- Includes payment terminal with pin pad to comply with European AFIR regulations
- Additionally, AFIR-compliant thanks to display for showing QR codes for direct payment
- AFIR-compliant thanks to PLC modem and ISO 15118 communication
- Compliant to German calibration law

# Accessories

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

# Technical data

## General informationen

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, giro and credit card
Payment terminal	Feig cVend PIN (VR-Payment)
Package dimensions (W x D x H)	1,200 x 800 x 1,700 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 9003, 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	44 A
Maximum output current	32 A
Device power consumption in standby mode	< 13 W
Connections	House connection box with steel frame terminals (10 to 95 mm <sup>2</sup> ) 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 $\cos\phi$	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
Communication interface EV and EVSE	ISO 15118-2 according to AFIR
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; VDE AR-N 4100; ISO 15118-2

## Environmental conditions

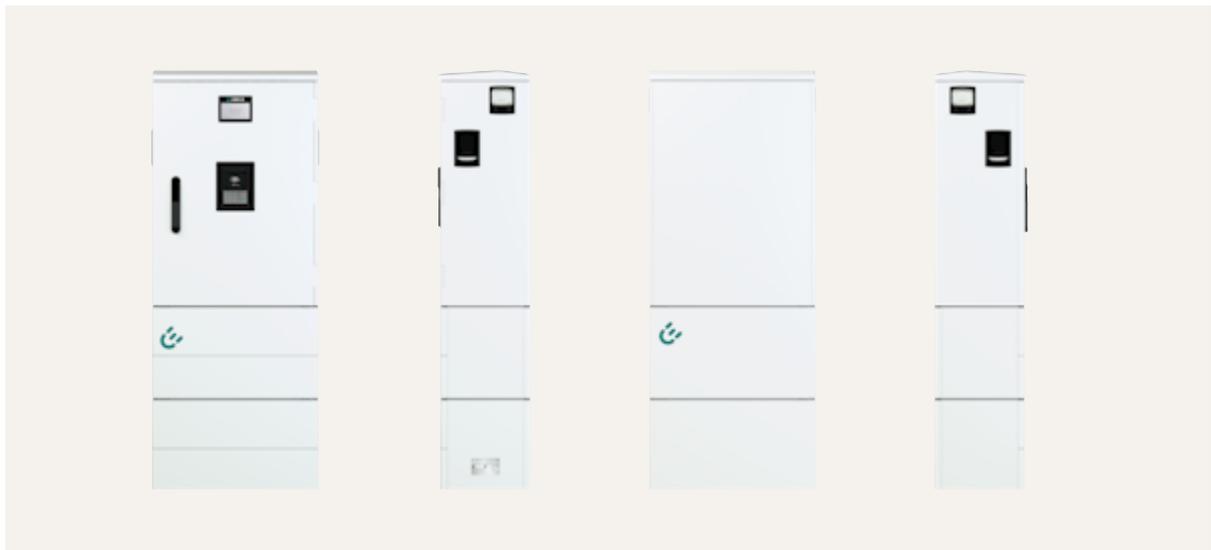
Storage temperature	-25 °C to +50 °C
Environmental operating temperature*	-25 °C to +40 °C
Humidity	< 95 % (non-condensing)
Degree of pollution	3
Areas of use	Internal & external areas
Operating altitude above sea level	2,000 m max.

# Technical data

## Measurements



## Illustrations





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Technical changes and errors excepted.

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