

# Data sheet CITO 500

Model: 2 charge points, calibration law-compliant

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Whether at the supermarket car park or even at the car dealership, charging with 50 kW is becoming more and more relevant alongside ultrafast charging.

At less powerful grid connections in particular, all vehicles can be charged with up to 50 kW (DC) at the CITO 500, regardless of their onboard charging device. In parallel, up to 22 kW (AC) can be charged at a second charging point of the CITO 500.

The CITO 500 offers charging in compliance with calibration regulations in Germany via the SAM module. With SAM technology, the user can view and check consumption even without a connection to the IT backend.



# Highlights

- Charging with up to 22 kW AC and 50 kW DC
- DC and AC charging of two electric vehicles in parallel
- Giro-e able
- Calibration law-compliant billing via SAM storage and display module
- LAN and 4G connectivity
- All protective components integrated
- Maintenance and installation optimised front and side access
- Can be installed directly in front of walls
- Connection to IT backends via: OCPP 1.6J
- Energy/load management via Modbus protocol, FNN standard control box interface
- Particularly low noise emission with < 55 dB enables operation in residential areas
- Ambient lighting

# Configuration

- Giro-e connection
- Load management packages

# Accessories

- Concrete base + base filler granulate

# Technical data

## General informationen

Charging mode	AC, mode 3 / DC, mode 4
Number of charging points	2
Charging connector	1x type 2 socket, 1x CCS charging cable (3.4 m)
IT backend connection	OCPP 1.6 JSON
Authorisation	Free charging, RFID, smartphone app, optional: Giro-e
Package dimensions (W x D x H)	1,200 x 800 x 2,200 mm, shipped on Euro pallet

## Mechanical details

Mounting type	Base mounted (bm)
Enclosure material	Stainless steel
Surface	Powder coated
Lock	Swivelling lever, built-in space for one profile half cylinder
Dimensions (H x W x D)	1,995 x 640 x 511 mm
Weight	Approx. 300 kg

## Electrical data

Maximum charging output per charge point	AC: 22 kW; DC: 50 kW
Nominal voltage, number of phases, nominal frequency	400 V; 3; 50 Hz
Maximum input current	112 A per phase, configurable
Device power consumption in standby mode	< 50 W
Efficiency	> 94 %
Connections	4-pole main switch (max. 75 mm <sup>2</sup> ) + PE terminal + main earthing bar with connection for local earth electrode
Earthing system	TN, TT
Protection	AC: RCD type A & DC residual current detection 6 mA; DC: LS C100
Overvoltage protection	Type 1+2+3 compliant with DIN EN 61643-11
Protection class	1
Welding detection	Hardware-based redundant cut-off

# 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	User instructions via display
Status display	LED status indicator for each charge point
Display	Size: 4.3" display

## Certification

IP protection class	IP54
Impact resistance	IK10
Meter / German calibration law	AC: MID-compliant smart meter with SAM storage and display module; DC: meter with SAM storage and display module
Approvals	CE, RoHS, REACH, GPSD, WEEE
Standards	DIN EN 61851-1; DIN EN 61851-23; 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
Noise level	< 55 dBA
Areas of use	Internal & external areas
Operating altitude above sea level	2,000 m max.

# Technical data

## Measurements



## Viewpoints





The power to move



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