Data sheet
CITO 500

Apart from ultra-rapid charging, charging with 50 kW is becoming ever more relevant, be it on the supermarket car park or in the bus depot

At less powerful grid connections in particular, all vehicles can be charged with up to 50 kW at the CITO 500, regardless of their onboard charging device.

In addition, SAM® technology provides calibration law-compliant metering.

Product images contain special coloring.

Highlights

- Charging with up to 22 kW AC and 50 kW DC

- Up to 3 charging connectors on one charging station

- DC and AC charging of two electric vehicles in parallel

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

- LAN and 4G connectivity

- All protective components integrated

- Single point of service – frontal access for connection and servicing

- Connection to IT backends via: OCPP 1.6J

- Optional with Giro-e

- Can be installed directly in front of walls

Options & Accessories

- Additional CHAdeMO charging point

- Giro-e; minimum order quantity 100 units

- Inclusion of 3x RFID in whitelist

- Concrete base + base filler granulate

- Load management packages

- Load management configuration service

Technical data

General informationen

Charging mode	AC, mode 3 / DC, mode 4
Number of charging points	2 - 3
Charging connector	1x type 2 socket, 1x CCS charging lead (3.4 m); optional CHAdeMO charging lead (3.4 m)
IT backend connection	OCPP 1.6 JSON
Authorisation	Free charging, RFID, smartphone app, optional: Giro-e
Package dimensions (WxDxH)	120 x 80 x 220 cm, 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 (HxWxD)	Floor mounted version: 1995 x 640 x 511 mm
Weight	Approx. 300 kg, depending on added options

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% at 100% output @ 125 A @ 400 V DC
Connections	4-pole master switch (max. 75 mm²) + 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

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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: 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

Technical drawing

Mounting options

Cito 500
2 in 1

Cito 500
3 in 1
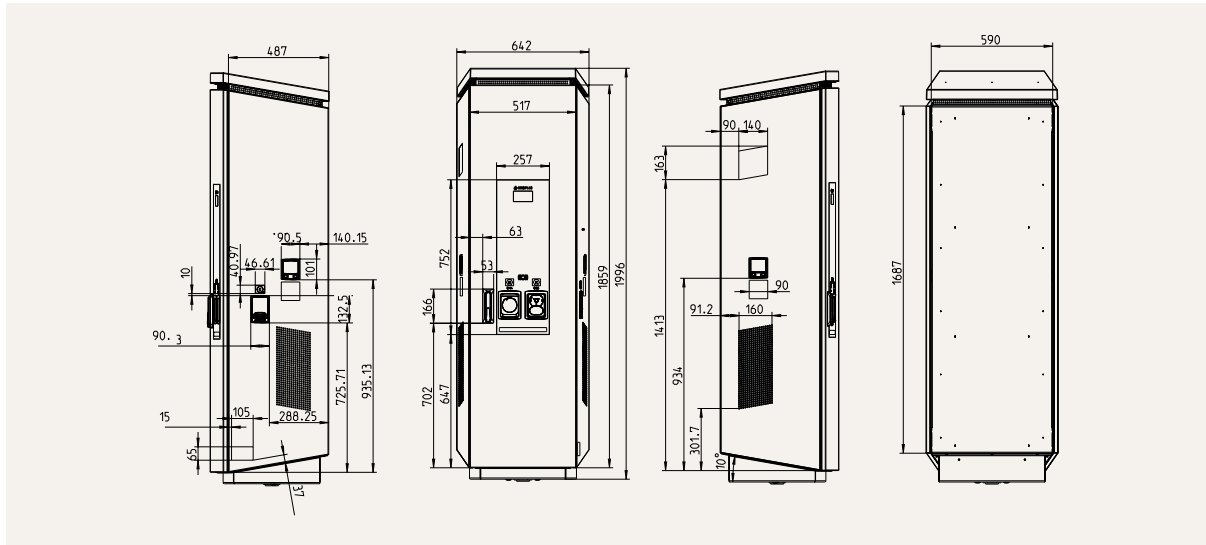
COMPLEO

The power to move

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Technical changes and errors excepted.