

CITO 500

technical specifications



V1.4, 16.11.2021

General information

Model name	CITO 500
Charging mode	Mode 3 Mode 4
Number of connectors	Up to 3 connectors. DC and AC simultaneous charging of two electric vehicles possible
Connectors	CCS Charging cable with 50 kW, 3,4 m length, Mode 4
	CHAdeMO (optional) Charging cable with 50 kW, 3,4 m length, Mode 4
	Type-2 (optional) Socket with up to 22 kW, Mode 3
	Near field lighting Yes

Mechanical specifications

Dimensions (H x W x D)	1995 x 640 x 511 mm (excluding cable)
Weight	< 300 kg
Housing material	Stainless steel (powder-coated)
Design	Painted in RAL9010 (pure white) Optional: painting/lamination as desired
Locking	Pivot lever, intended to accommodate a profile half-cylinder
Mounting options	Ground mounting or concrete base (optional)

Electrical specification

Nominal voltage, no. of phases, nominal frequency	400 V, 3 ~, 50 Hz
Maximum input current	112 A (configurable)
Connection terminal	4-pole master switch (max. 95 mm ²) + PE terminal + additional connection for local earthing
Installed protective devices	AC: RCD type A & DC leakage current detection 6 mA Hardware-redundant shutdown (welding detection) DC: MCB C100
Over-voltage protection	Type 1+2+3 compliant with DIN EN 61643-11, all terminals
Earthing system	TN
Output rating (per connector)	DC: 50 kW; 200-480 V; max. 125 A AC: 22 kW; 400 V; 32 A
Standby-Power	< 50 W
Efficiency	> 94 % at 100 % Power @ 125 A @ 400 V DC

Connectivity

Communication protocol	OCPP 1.6 JSON Connection to nearly every backend possible
Communication interfaces	Integrated 4G modem 100 Mbit/s Ethernet connection
Authentication	RFID, Remote, without (charge for free)
Display	Graphic display (4.3")
Status indication	LED status indicator per connector

Standards, directives and operating conditions

IP protection class	IP54
Impact resistance	IK10
Standards	DIN EN 61851-1; DIN EN 61851-23; DIN IEC/TS 61439-7
AC meter	MID-compliant electricity meter optional storage and display module (SAM®) for German calibration law-compliant billing based on kWh or duration
DC meter	DC meter optional storage and display module (SAM®) for German calibration law-compliant billing based on kWh or duration
Compliance	CE, RoHS, REACH, GPSD, WEEE
Operating temperature	-25 °C to +40 °C
Storage temperature	-25 °C to +80 °C
Humidity	< 95 % (non-condensing)
Altitude	max. 2000 m
Noise level	< 45 dBA

Optional features

Lamination	Concrete base + base filler granulate Stainless steel collision barrier, optionally with concrete base
Giro-e	
Load management	
Add RFID cards to whitelist	
Service packages	
Cable management	

