

Compleo Cito 500 tender text

General	<p>Charging station with two charging points for simultaneous AC and DC charging of electric vehicles according to IEC 61851-1 Mode 3 and Mode 4 in (semi)public areas with up to 22 kW (AC) and up to 50 kW (DC).</p> <p>The charging station is equipped with a Type 2 charging socket (AC) and a CCS charging cable (DC).</p> <p>An AC charging process can run in parallel with a DC charging process.</p> <p>Calibration compliance is ensured locally and independently of the backend for both AC and, if possible, DC charging. The operator has no obligation to store data. Meter values can be read directly at the charging station. Both kWh and charging time can be billed in compliance with calibration regulations.</p> <p>The charging station is CE, RoHs and REACH compliant.</p>
Mechanical Data	<p>Floor mounting on solid base or optionally available concrete base.</p> <p>Weight with full equipment approx. 300 kg.</p> <p>Weatherproof, corrosion-resistant stainless steel housing to IP54 with mechanical impact resistance IK10, suitable for outdoor installation. With lockable door for maintenance access from the front. Easy access to the integrated controller, MCB and RCD for maintenance and troubleshooting must be ensured.</p> <p>Painted enclosure that can be individually foiled.</p>
Electrical Data	<p>3-phase connection to the local power grid with 400 V, configurable input current with up to 112 A, 50 Hz.</p> <p>Maximum charging power up to 22 kW (AC), 400 V, 32 A and 50 kW (DC), 200 - 480 V, max. 125 A.</p> <p>Supply line cross-section up to 70 mm².</p> <p>Efficiency > 94 % at 125 A and 400 V DC.</p> <p>RCD, type A, 30 mA together with 6 mA DC fault current detection integrated, alternatively RCD type B.</p> <p>MCB C100 integrated.</p> <p>Welding Detection (charging socket does not carry current when charging contact is welded) integrated per charging point.</p> <p>Shifted load conformity guaranteed for 1-phase charging vehicles.</p> <p>3-pole circuit breaker integrated per charging point.</p> <p>Overvoltage protection type 1+2+3 according to DIN EN 61643-11, all-pole, can be integrated into the charging station, then overvoltage category II, otherwise overvoltage category III.</p> <p>Highest safety due to insulation monitoring.</p> <p>The electrical components must be provided with contact protection (IPxxB or higher) when the housing is open.</p> <p>MID-compliant smart meter integrated.</p>
Connectivity	<p>The charging station supports OCPP 1.6 JSON and can be integrated into all backends compatible with it.</p> <p>Integrated LTE modem, Ethernet connection.</p> <p>Integrated credit card terminal with PIN pad compliant with current German charging station regulations.</p> <p>Charging station controller with high computing power integrated, suitable for technological advancement on software level (for example with embedded Linux).</p> <p>The charging station can be integrated into an intelligent load management system. For example, power can be limited as specified by an energy management system. Communication e.g. via Modbus.</p>
Packing	<p>Environmentally friendly packaging.</p> <p>Operating instructions enclosed at least on suitable data carrier.</p> <p>Storage temperature between -25°C and +80°C.</p>
Installation	<p>The charging infrastructure must be mounted ready for connection and individually tested with the safety protection technology.</p> <p>The charging pole can be transported by crane.</p>

Lockable door accessible from the front for easy access to the integrated controller, safety components for maintenance and troubleshooting. Operator's own profile half cylinder can be used.

Setup and parameterization via internal Ethernet interface. Factory preconfigured backend connection. Function with the backend must be verified by a backend integration test.

Operation

Operating temperature between -25°C and +40°C.

Continuous charging without derating at outdoor temperatures up to 40°C.

Noise level <55 dB(A).

LED status indicator and display provide information on readiness, charging and errors.

Ambient lighting available.

A charging process can be enabled via RFID, remote or, if necessary, without authentication. Authentication via Giro-E is possible as an option.

If necessary, reduction of the charging current or shutdown to prevent overheating.
