Compleo eTower 200 tender text

General	Charging station with two charging points for DC charging of electric vehicles according to IEC 61851-1 Mode 4 in (semi)public areas with up to 200 kW (DC). The charging station is equipped with two CCS charging cables. Two vehicles can be charged simultaneously. The charging power is divided in steps between the vehicles depending on the required power of each vehicle. Compliance with calibration laws is guaranteed locally and independently of the backend. The operator has no obligation to store data. Meter values can be read directly at the charging station. In addition, charging data can be transmitted via OCFM. Both kWh and charging time can be billed in accordance with calibration law. The charging station is CE, RoHs and REACH compliant.
Mechanical Data	Base mounting on solid ground or optionally available concrete base. Weight of the charging station with full equipment approx. 750 kg. 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. At least 1 m distance between charging points for optimal parking space coverage Painted housing that can be individually foiled. A cable management system can be added to the charging station. The charging cables are passively cooled and maintenance-free.
Electrical Data	3-phase connection to the local power grid with 400 V, input current with 342 A, 50 Hz. Maximum charging power up to 200 kW, 200 - 920 V, max. 500 A. Supply line cross-section per unit up to 240 mm². Efficiency > 97,5 % at 500 A and 400 V DC. Overvoltage protection type 1+2+3 according to DIN EN 61643-11 integrated in the charging station. Highest safety due to insulation monitoring. The electrical components must be provided with contact protection (IPxxB or higher) when the housing is open.
Connectivity	The charging station supports OCPP 1.6 JSON and can be integrated into all backends compatible with it. Hardware is prepared for OCPP 2.0 and higher. Hardware is prepared for ISO 15118 PnC. Integrated LTE modem, Ethernet port. NFC reader integrated (ISO 14443 A/B, ISO 18092, ECMA-340, ISO 15693). Optionally with integrated credit card terminal with PIN pad for German charging station regulation-compliant payment. Charging station controller with high computing power integrated, suitable for technological advancement at software level (for example, with embedded Linux). 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. A display with at least 15" screen diagonal is provided for user guidance.
Packaging	Environmentally friendly packaging. Operating instructions enclosed at least on suitable data carrier. Storage temperature between -25°C and +80°C.
Installation	The charging infrastructure must be assembled ready for connection and individually tested with the safety protection technology. The charger can be transported by crane and forklift. Lockable door accessible from the front. Operator's own profile half cylinder can be used. Setup and parameterization via internal Ethernet interface. Function with the backend must be verified by a backend integration test.
Operation	Operating temperature between -25°C and +40°C. Charging with 200 kW must be possible for at least 12 minutes without derating at 40 °C outside temperature. Loudness < 49,4 dB(A) in 3 m distance.

	LED status indicator and display inform about readiness, charging process and errors. Ambient lighting available. The charging point status can be seen remotely (ready, charging, fault). A charging process can be enabled via RFID, remote or, if necessary, without authentication. Authentication via credit card is possible as an option. If necessary, the charging current can be reduced or switched off to prevent overheating.