

Compleo Duo Fleet tender text

General	Charging station with two charging points for charging electric vehicles according to IEC 61851-1 Mode 3 in (semi)public areas with up to 22 kW per charging point. The charging station is equipped with two Type 2 sockets or charging cables according to IEC 62196. There is a cabling concept that avoids the high cost of star wiring when installing multiple charging stations. 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. Both kWh and charging time can be billed in accordance with German calibration law. The charging station is CE, RoHS and REACH compliant.
Mechanical Data	Floor mounting, prefabricated base optionally available. Weight with full equipment maximum 45 kg. Weatherproof, modular, corrosion-resistant housing to IP44 with mechanical impact resistance IK10, preferably hot-pressed, glass-fiber-reinforced polyester (SMC). Relevant components protected to IP54. Painted housing that can be individually foiled.
Electrical Data	3-phase connection to the local power grid with 400 V, configurable input current with up to 63 A, 50 Hz, for a maximum charging power of up to 22 kW per charging point. Supply line cross-section up to 95 mm². RCD, type A, 30 mA together with 6 mA DC fault current detection integrated, alternatively RCD type B. The RCD can be reset manually without opening the charger. Welding detection (charging socket does not carry current when charging contact is welded) integrated per charging point. Shifted load conformity guaranteed for 1-phase charging vehicles. 3-pole circuit breaker integrated for each charging point. 1-pole circuit breaker for control components integrated. Overvoltage protection type 1+2+3 according to DIN EN 61643-11, all-pole, is integrated in the charging station, then overvoltage category II, otherwise overvoltage category III. The electrical components are protected against accidental contact (IPxxB) when the housing is open. MID-compliant smart meter integrated.
Connectivity	The charging station supports OCPP 1.6 JSON and can be integrated into all compatible backends. Integrated LTE modem and Ethernet port. NFC reader integrated (ISO 14443 A/B, ISO 18092, ECMA-340, ISO 15693). 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, the power can be limited according to the specifications of an energy management system. Communication e.g. via Modbus.
Packaging	Operating instructions enclosed at least on suitable data carrier. Storage temperature between -25°C and +50°C.
Installation	The charging infrastructure must be assembled ready for connection and individually tested with the safety protection technology. The complete charging pole must be installed by two people without a crane. 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. Personal protection to be ensured by internal RCCB.
Operation	Operating temperature between -25°C and +40°C. LED status display informs about readiness, charging process and errors, optional display. A charging process can be authorized 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 switch-off to avoid overheating.
