Tender texts – Compleo DUO ims – advanced & highline

General information	• Charging station for charging electric vehicles according to IEC 61851-1 Mode 3 • Charging in public areas • Two AC charging points • Two Type 2 sockets with interlock according to IEC 62196 • Direct connection to all low-voltage networks without sub-distribution • Integration of a meter for the grid operator • Full compliance with the requirements of the Low Voltage Directive VDE-AR-N 4100 • Billing of charging time and/or charging power in compliance with calibration law regulations • Guaranteed readability of charging data • Integrated, MID-compliant smart meter with viewing window • CE certification • Conformity with EU directives RoHS and REACH • Can be customised by foiling the pedestal • Made in Germany at production sites in Dortmund
Mechanical data	• Mounting on the floor. Prefabricated base optionally available • Weight with full equipment maximum 77 kg • Functional design with low depth (H x W x D: 1483 x 590 x 320 mm) • Protection class of the housing min. IP44 • Protection class of relevant components min. IP54 • Protection class (mechanical impact resistance) min. IK10 • Weatherproof, scratchproof and corrosion-resistant SMC housing • Theft protection possible through use of operator's own profile half cylinder • Protection against vandalism due to locked sliding cover - Unlocking by authentication
Electrical data	• 3-phase connection to the local grid with 400 V, 50 Hz • Configurable input current up to 63 A • Max. 2 x 22 kW charging power • Supply line cross-section from 10 - 95 mm²

Protective devices	• Integrated RCD per charging point, type A, 30 mA
	• Integrated 6 mA DC fault current detection per charging point, alternatively 2x RCDs type B
	• As few service calls as possible: RCDs automatically reconnected via the backend in course of the semi-annual functionality test
	• Integrated welding detection for each charging point
	• Ensures unbalanced load conformity for single-phase charging vehicles
	• Integrated 3-pole circuit breaker per charging point
	• Integrated 1-pole circuit breaker for control components per charging point
	• Overvoltage protection type 2+3 or type 1+2+3 according to DIN EN 61643-11, all-pole, integrated
	• Integration of essential components to comply with VDE-AR-N 4100:
	  ○ House connection box for NH00 fuses
	  ○ Mains-side connection compartment for supply of the room for additional applications (RfZ) and termination point meter panel (APZ)
	  ○ Meter field for up to two electronic household meters (eHZ) or installation of a 3-point meter for the network operator
	  ○ Ethernet line from RfZ to APZ
	  ○ Contact to fulfil disconnectability
	  ○ Connection room on the system side
	  ○ APZ

	• Contact protection class of the electrical components with open housing IPxxB
Connectivity	• Use of the OCPP 1.6 JSON communication protocol, integration of the charging station in all compatible back-ends possible • Integrated LTE modem, Ethernet interface • Integrated NFC reader (ISO 14443 A/B, ISO 18092, ECMA-340, ISO 15693) • Integrated charging station controller with high computing power • Intelligent load management with static upper limit possible without additional hardware • External dynamic power setting possible, e.g. via Modbus TCP, to include building load and PV feed-in • Integration into an existing energy management system possible, e.g. via Modbus TCP
Installation	• Ready-to-connect installation of the charging infrastructure • Individually tested safety protection technology • Installation of the charging pole possible by two persons without a crane • Lockable front access to the safety components and to the integrated control for maintenance and troubleshooting purposes • Setup and parameterization via internal Ethernet interface • Factory preconfigured backend connection • Operating instructions included • Storage temperature between -25°C and +80°C
Operation	• Operating temperature between -25°C and +40°C • If necessary, reduce the charging current or switch off to avoid overheating (derating) • Use at an altitude of up to 2,000 m above sea level
Authentication	• Authorization of the charging process via RFID, remote or, if necessary, without authentication • Optional authentication via Giro-e
UI/UX	• At least 4.3'' display incl. indication of charging power or similar • LED status display provides information on readiness, charging process and errors • Graphic operating instructions on user interface