

Tender texts – Compleo DUO fleet

General information	<ul style="list-style-type: none"> • Charging station for charging electric vehicles according to IEC 61851-1 Mode 3 • Charging in (semi)-public areas • Two AC charging points • Two Type 2 sockets with interlock according to IEC 62196 or two attached, spiralised Type 2 charging cables with up to 6.5 m usable length • Cabling concept to avoid cost-intensive star cabling when installing multiple charging stations • 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	<ul style="list-style-type: none"> • Mounting on the floor, on the wall or on a post. Prefabricated base optionally available • Weight with full equipment maximum 45 kg • Compact design with low depth both <ul style="list-style-type: none"> a) for floor mounting (H x W x D: 1441 x 400 x 225 mm) and b) for wall/post mounting (H x W x D: 1000 x 400 x 225 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	<ul style="list-style-type: none"> • 3-phase connection to the local grid with 400 V, 50 Hz • Configurable input current up to 63 A • Max. 2 x 11 kW charging power with charging sockets or attached charging cables • Max. 2 x 22 kW charging power with charging sockets • Connection via busbar system with supply cable cross-section up to 95 mm²
Protective devices	<ul style="list-style-type: none"> • 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 • Contact protection class of the electrical components with open housing IPxxB
Connectivity	<ul style="list-style-type: none"> • 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

	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Authorization of the charging process via RFID, remote or, if necessary, without authentication • Optional authentication via Giro-e
UI/UX	<ul style="list-style-type: none"> • 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