

## Tender text – Compleo DUO advanced & highline

<b>General information</b>	<ul style="list-style-type: none"> <li>• Charging station for charging electric vehicles according to IEC 61851-1 Mode 3</li> <li>• Charging in (semi)-public and private areas</li> <li>• Two AC charging points</li> <li>• 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</li> <li>• Billing of charging time and/or charging power in compliance with calibration law regulations</li> <li>• Guaranteed readability of charging data</li> <li>• Integrated, MID-compliant smart meter with viewing window</li> <li>• CE certification</li> <li>• Conformity with EU directives RoHS and REACH</li> <li>• Can be customised by foiling the pedestal</li> <li>• Made in Germany at production sites in Dortmund</li> </ul>
<b>Mechanical data</b>	<ul style="list-style-type: none"> <li>• Mounting on the floor, on the wall or on a post. Prefabricated base optionally available</li> <li>• Weight with full equipment maximum 45 kg</li> <li>• Compact design with low depth both             <ul style="list-style-type: none"> <li>a) for floor mounting (H x W x D: 1441 x 400 x 225 mm) and</li> <li>b) for wall/post mounting (H x W x D: 1000 x 400 x 225 mm)</li> </ul> </li> <li>• Protection class of the housing min. IP44</li> <li>• Protection class of relevant components min. IP54</li> <li>• Protection class (mechanical impact resistance) min. IK10</li> <li>• Weatherproof, scratchproof and corrosion-resistant SMC housing</li> <li>• Theft protection possible through use of operator's own profile half cylinder</li> <li>• Protection against vandalism due to locked sliding cover - Unlocking by authentication</li> </ul>
<b>Electrical data</b>	<ul style="list-style-type: none"> <li>• 3-phase connection to the local grid with 400 V, 50 Hz</li> <li>• Configurable input current up to 63 A</li> <li>• Max. 2 x 11 kW charging power with attached charging cables</li> <li>• Max. 2 x 22 kW charging power with charging sockets</li> <li>• Supply line cross-section up to max. 35 mm<sup>2</sup></li> </ul>
<b>Protective devices</b>	<ul style="list-style-type: none"> <li>• Integrated RCD per charging point, type A, 30 mA</li> <li>• Integrated 6 mA DC fault current detection per charging point, alternatively 2x RCDs type B</li> <li>• As few service calls as possible: RCDs automatically reconnected via the backend in course of the semi-annual functionality test</li> <li>• Integrated welding detection for each charging point</li> <li>• Ensures unbalanced load conformity for single-phase charging vehicles</li> <li>• Integrated 3-pole circuit breaker per charging point</li> <li>• Integrated 1-pole circuit breaker for control components per charging point</li> <li>• Overvoltage protection type 2+3 or type 1+2+3 according to DIN EN 61643-11, all-pole, integrated</li> <li>• Contact protection class of the electrical components with open housing IPxxB</li> </ul>
<b>Connectivity</b>	<ul style="list-style-type: none"> <li>• Use of the OCPP 1.6 JSON communication protocol, integration of the charging station in all compatible back-ends possible</li> <li>• Integrated LTE modem, Ethernet interface</li> <li>• Integrated NFC reader (ISO 14443 A/B, ISO 18092, ECMA-340, ISO 15693)</li> <li>• Integrated charging station controller with high computing power</li> <li>• Continuous security and feature updates via backend or locally via web interface</li> </ul>

	<ul style="list-style-type: none"> <li>• Intelligent load management with static upper limit possible without additional hardware</li> <li>• External dynamic power setting possible, e.g. via Modbus TCP, to include building load and PV feed-in</li> <li>• Integration into an existing energy management system possible, e.g. via Modbus TCP</li> </ul>
<b>Installation</b>	<ul style="list-style-type: none"> <li>• Ready-to-connect installation of the charging infrastructure</li> <li>• Individually tested safety protection technology</li> <li>• Installation of the charging pole possible by two persons without a crane</li> <li>• Lockable front access to the safety components and to the integrated control for maintenance and troubleshooting purposes</li> <li>• Setup and parameterization via internal Ethernet interface</li> <li>• Factory preconfigured backend connection</li> <li>• Operating instructions included</li> <li>• Storage temperature between -25°C and +80°C</li> </ul>
<b>Operation</b>	<ul style="list-style-type: none"> <li>• Operating temperature between -25°C and +40°C</li> <li>• If necessary, reduce the charging current or switch off to avoid overheating (derating)</li> <li>• Use at an altitude of up to 2,000 m above sea level</li> </ul>
<b>Authentication</b>	<ul style="list-style-type: none"> <li>• Authorization of the charging process via RFID, remote or, if necessary, without authentication</li> <li>• Optional authentication via Giro-e</li> </ul>
<b>UI/UX</b>	<ul style="list-style-type: none"> <li>• At least 4.3" display incl. indication of charging power or similar</li> <li>• LED status display provides information on readiness, charging process and errors</li> <li>• Graphic operating instructions on user interface</li> </ul>