# EVBox Troniq High Power


EVBOX

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# Technical specifications

| DC OUTPUT | |
|---|---|
| **Connector type** | Mode 4 (DC charging) CCS2 |
| **Output power** | 400 kW - 360 kW - 320 kW |
| **Power module granularity** | 40 kW |
| **Output voltage range** | 150 VDC to 980 VDC |
| **Output current** | up to 500 A / 980 VDC per cable<br>500 A for > 30 mn at 20 ºC ambient |
| **Cable reach**<br>***from charger front to nozzle tip*** | · 3 meter reach<br>· 4.5 meter reach with arm cable management |

| STRUCTURE AND PHYSICAL PROPERTIES | |
|---|---|
| **Enclosure material** | Powder coated paint, enclosure in alloy, galvanized and stainless steel |
| **Enclosure ratings** | IP54 / IK10 |
| **Operating noise level** | 70 dB(A) with full 400kW power, by 25ºC ambient, measured at 3 m from the front of the charger [4] |
| **Operating temperature** | -30 °C to +30 °C (+30 to +55 °C with derating) |
| **Storage temperature** | -40°C to +70°C |
| **Operating humidity** | 20% to 95% relative humidity, non-condensing |
| **Storage humidity** | 20% to 85% relative humidity, non-condensing |
| **Ambiance** | Non explosive area |
| **Cooling** | Forced ventilation |
| **Maximum installation altitude** | 2000 m |
| **Dimensions (W x H x D)** | · 866 x 2479 x 1050 mm<br>· 960 x 2500 x 1200 mm packed |
| **Weight** | **400 kW**: 780 kg / < 820 kg packed |
| **Colors** | Body: Traffic white (RAL 9016)<br>Other: Black grey (RAL7021), Jet Black (RAL9005)<br>*Most RAL colors and stickering service available with a minimum order quantity* |
| **EMC Classification** | Class A<br>**Caution**: This equipment is not intended for use in residential environments and may not provide adequate protection to radio reception in such environments. |

| CERTIFICATION & COMPLIANCE |
|---|
| CE |

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|---|
| UKCA |
| RED Directive 2014/53/EU |
| IEC 61851-1: 2017; EN 61851-1: 2019 / IEC 61851-23: 2014; EN 61851-23: 2014/C1: 2016 / IEC 61851-21-2: 2018; EN 61851-21-2: 2021 |
| DC Meters Class A according to EN50470, with accuracy better than +/- 2%, 2 possible configurations:<br>– Eichrecht For Germany and Austria<br>– MID / LNE (LNE: for France; MID: for the rest of Europe) |

| CONNECTIVITY | |
|---|---|
| **Authorization** | RFID/NFC, Autocharge (MAC Address)<br>Optional Payter Apollo |
| **RFID reader** | Contactless reader RFID/NFC (ISO 14443, ISO 18092, ISO 15693, ISO 18000-3, Calypso, Mifare Ultralight C, Classic, Desfire) |
| **Status indication** | LED strips |
| **HMI** | 15" IK10 anti-vandalism LCD color touchscreen |
| **Network connection** | CPO Backend via 4G/LTE (3G/2G Fallback) or Ethernet<br>EVBox remote monitoring server via Remote Diagnostics Board |
| **Communication protocol to the backend** | OCPP 1.6J[3], ready for later software update to OCPP 2.0.1 |
| **Communication protocol to the EV** | DIN70121, ready for later software update to Plug & Charge / ISO 15118 |

| AC INPUT | |
|---|---|
| **Voltage range** | 400 VAC / 480 VAC +/-10% (main)<br>230 VAC +/-10% (heater) |
| **Number of phase** | 3P + GND (main), 1P + N (heater) |
| **Frequency** | 50 Hz |
| **Nominal input current** | 615 A for 400 kW[1], 5.2 A (heater) |
| **$I_{SCCR}$** | 46 kA |
| **Power factor** | > 0.99[1] |
| **Efficiency** | > 95.5% full load (All inclusive, measured between the AC inlet to the end of the CCS connector)[1] |
| **Surge protection device** | Type 2 |

*For further technical specifications, please refer to the installation manual[1] or to the EVBox DC Firmware guide[3].*

*[2] Can increase at higher temperatures*

*[4] Results in the field will be influenced by the environment, the measuring instruments and their calibration.*

*Specifications and performance data contain average values within existing specification tolerances and are subject to change without prior notice.*