

EVBox Troniq High Power

Up to 400 kW modular
DC charging station



EVBOX

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Technical specifications

| DC OUTPUT | |
|--------------------------|--|
| Connector type | Mode 4 (DC charging) CCS2, up to 500 A / 980 Vdc per cable 500 A for > 30 mn at 20 °C ambient |
| Output power | 400 kW - 360 kW - 320 kW |
| Power module granularity | 40 kW |
| Output voltage range | 150 Vdc to 980 Vdc |
| Cable reach | > 3 meter reach, from charger front to nozzle tip |

| STRUCTURE AND PHYSICAL PROPERTIES | |
|-----------------------------------|--|
| Enclosure material | Power coated paint, enclosure in alloy, galvanized and stainless steel |
| Enclosure ratings | IP54 / IK10 |
| Operating temperature | -30 °C to +40 °C (+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 |
| Cooling | Forced ventilation |
| Maximum installation altitude | 2000 m |
| Dimensions (W x H x D) | 866 x 2479 x 1050 mm 960 x 2500 x 1200 mm packed |
| Weight (400 kW) | 780 kg / < 820 kg packed |

| | |
|--------------------|---|
| Colors | Body: Traffic white (RAL 9016) Other: Black grey (RAL7021), Jet Black (RAL9005) <i>Most RAL colors and stickering service available with a minimum order quantity</i> |
| EMC Classification | Class A |

| CERTIFICATION & COMPLIANCE | |
|----------------------------|--|
| CE | |
| UKCA | |
| RED Directive 2014/53/EU | |

| CERTIFICATION & COMPLIANCE | |
|----------------------------|---|
| | 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: – Eichrecht For Germany and Austria – MID / LNE (LNE: for France; MID: for the rest of Europe) |

| CONNECTIVITY | |
|---------------------------------------|--|
| Authorization | RFID/NFC, Autocharge (MAC Address) Optional contactless Payment terminal with Pinpad, supporting Apple Pay |
| 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 and rings charging indicators |
| HMI | 15" IK10 anti-vandalism LCD color touchscreen |
| Network connection | CPO Backend via 4G/LTE (3G/2G Fallback) or Ethernet EVBox remote monitoring server via a second modem |
| Communication protocol to the backend | OCPP 1.6J ⁽²⁾ , 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 +/-10% (main) 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) |
| Power factor | > 0.99 ⁽¹⁾ |
| Peak efficiency | 95.5% (DC connector / AC input) ⁽¹⁾ |
| Surge protection device | Type 2 / 3P+N / 400V / 20 kA |

⁽¹⁾ For further technical specifications, please refer to the installation manual.

⁽²⁾ For further technical specifications, please refer to the EVBox DC Firmware guide.

Pending certification completion.

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

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