

# 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 500 A for > 28 min at 20 °C ambient
Cable reach (from charging station front to charging connector)	<ul style="list-style-type: none"> <li>3 m reach (cable length 4 m)</li> <li>4.5 m reach with cable management arm (cable length 6 m)</li> </ul>

STRUCTURE AND PHYSICAL PROPERTIES	
Enclosure material	Powder coated paint, enclosure in alloy, galvanized and stainless steel
Enclosure corrosion resistance	C3M according to NF EN ISO 12944-6 (218)
Enclosure ratings	IP54 / IK10
Operating noise level	70 dB(A) with full 400kW power, by 25°C ambient, measured at 3 m from the front of the charging station <sup>(3)</sup>
Operating temperature	-30 °C to +30 °C (+30 °C 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	Active ventilation
Maximum installation altitude	2000 m

Dimensions (W x H x D)	<ul style="list-style-type: none"> <li>866 x 2479 x 1050 mm</li> <li>866 x 2619 x 1050 mm with cable management arm</li> <li>960 x 2500 x 1200 mm packed</li> </ul>
Weight (400 kW with baseboard and cable management arm) <sup>(1)</sup>	810 kg
Weight (with packaging)	<ul style="list-style-type: none"> <li>Charging station: &lt; 820 kg</li> <li>Cable management arm: &lt; 30 kg</li> <li>Baseboard and connection tower: 32 kg</li> </ul>

STRUCTURE AND PHYSICAL PROPERTIES	
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 <b>Caution:</b> 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	
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:  
 – Eichrecht For Germany and Austria  
 – MID / LNE (LNE: for France; MID: for the rest of Europe)

CONNECTIVITY	
Authorization	RFID/NFC, Autocharge (MAC Address) 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 Optional: Remote Diagnostics Board enabling EVBox Care Plans
Communication protocol to the backend	OCPP 1.6J <sup>(2)</sup> , OCPP 2.0.1-ready
Communication protocol to the EV	DIN70121, Plug & Charge / ISO 15118 - ready

AC INPUT	
Voltage range	400 VAC / 480 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 <sup>(1)</sup> , 5.2 A (heater)

AC INPUT	
Short circuit current	46 kA
Power factor	> 0,99 <sup>(1)</sup>

AC INPUT	
Efficiency	> 95.5% full load (All-inclusive, measured between the AC inlet to the end of the CCS connector) <sup>(1)</sup>
Surge protection device	Type 2

For further technical specifications, please refer to the installation manual<sup>(1)</sup> or the EVBox DC Software guide<sup>(2)</sup>.

<sup>(3)</sup> Results in the field will be influenced by the environment, measuring instruments and their calibration.

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

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