EVBox Troniq
High Power

Up to 400 kW modular
DC charging station

EVBOX

Technical specifications

DC OUTPUT

Connector type	Mode 4 (DC charging) CCS2, up to 500 A / 920 Vdc per cable 500 A for > 30 mn at 20 ºC ambient
Output power	400 kW - 360 kW - 320 kW
Power module granularity	40 kW
Output voltage range	150 Vdc to 920 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 (240 kW)	780 kg / < 820 kg packed
Colors	Body: Traffic white (RAL 9016) Other: Black grey (RAL7021), Jet Black (RAL9005) *Most RAL colors and stickering service available with a minimum order quantity*
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.