EVBOX

Troniq Compact Modular

Technical datasheet

DC OUTPUT

Connector type	CCS2: up to 500A (prepared for 600A boost) Chademo: up to 125A
Output power	40 kW (one Power Module), max 125A, 80kW (two Power Modules), max 250A, 120kW (three Power Modules), max 375A, 160kW (four Power Modules), max 500A, 200kW (five Power Modules), max 600A
Power module granularity	40kW
Output voltage range	Min: 150VDC Max: 1000VDC
Output current	CCS2: 500A
Cable length	CCS2: S: 3m / M: 4,5m / XL: 7,5 m / XXL: 10m Cable Management System (CMS): optional

STRUCTURE AND PHYSICAL PROPERTIES

Enclosure material	Powder coated paint, enclosure in alloy, galvanized and stainless steel
Enclosure ratings	IP54 / IK10
Noise level	< 52dBA at 3m and 20°C
Operating temperature	-25°C to +40°C
Storage temperature	-40°C to +70°C
Operating humidity	10% to 95% relative humidity, non-condensing
Storage humidity	10% to 95% relative humidity, non-condensing
Ambiance	Non-explosive area
Cooling	Pass-through ventilation
Maximum installation altitude	2000m
Dimensions (W x H x D)	645 x 1920 x 467mm
Weight	270kg to 350kg depending on configuration
Colours	Body: Traffic White (RAL 9016) Other: Black Grey (RAL 7021), Jet Black (RAL 9005) Options for custom colours (powder coating), foil application and stickers
EMC Classification	Class B EN 61000-6-3, EN 61000-6-1, IEC 61851-21-2 (INDUSTRIAL - ENVIRONMENTS)
Installation environment	Indoor and outdoor installation
Type of installation	Floor mounted on plinth or base Concrete foundation base: optional
Inlet cable	max 300 mm^2 per phase and max ⌀ 33 mm per conductor
Protective class	Class 1 (protective earth connection)
Pollution degree	Degree 4

CERTIFICATION & COMPLIANCE

Main certifications	CE, UKCA, ISO/CEI 27001
EU Directives	Directive 2014/35/EU (LVD) Directive 2014/30/EU (EMC) Directive 2014/53/EU (RED) & EN 18031 Directive 2011/65/EU (RoHS) (as amended by 2015/863/EU)
Electrical Safety standards	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

CERTIFICATION & COMPLIANCE

DC meters	Class B according to EN 50470, with accuracy better than ± 1%, two possible configurations: – Eichrecht (Germany and Austria) – MID / LNE (LNE: for France; MID: for the rest of Europe)

CONNECTIVITY

RFID Reader & Authorization	RFID / NFC (ISO 14443A/B, ISO 18092, ISO 15693, ISO 18000-3, Calypso, Mifare Ultralight C, Classic, Desfire), Autocharge (MAC Address)
Payment terminal	Optional: Contactless payment terminal with Pinpad, supporting Apple Pay
Status indication	LED strips
HMI / User interface	15" IK10 anti-vandalism LCD colour touchscreen
Network connection	LTE/UMTS/GSM Modem 4G/3G/2G, 10/100Base-T Ethernet
Communication protocol to the backend	Open Charge Point Protocol (OCPP) 1.6J, OCPP 2.0.1-ready
Communication protocol to the EV	CCS2: ISO 15118, EN 61851-24/DIN SPEC 70121, CHAdeMO 1.2
Remote diagnostics	Remote access, diagnostics, software updates
Load and charging management	Automatic and intelligent power distribution across charging points
Multilingual system	User Interface in 22 languages

AC INPUT

Voltage range	Min: 360VAC (400VAC -10%) Max: 530VAC (480VAC +10%)
Number of phase	3 phases TN-C | TN-S | TN-C-S | TT
Frequency	50/60Hz
Nominal input current	40kW: max 60A, 80kW: max 120A, 120kW: max 180A, 160kW: max 240A, 200kW: max 300A
Short circuit current rating (SCCR)	65kA
Power factor	> 0.99
Efficiency	Up to 97.5%
THDi	<3% at full load
Surge protection device	Type 2 + 3
Overvoltage category	OVC III, DIN EN 60664-1

ADDITIONAL FEATURES

Simultaneous charging	Simultaneous charging on all connectors
Dynamic load management	Maximum total DC output granularity for dynamic load management: 40 kW
Noise management	Configurable noise level limits for daytime and nighttime operation, ideal for noise-sensitive environments.
Additional safety features	Optional: emergency stop button Door contact switch

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