

EV/BOX

Troniq Ultra High Power Modular



Technical datasheet

DC OUTPUT

Connector type	CCS2: up to 500A (prepared for 600A boost) Megawatt Charging System (MCS): up to 1000A
Output power	160kW to 520kW
Power module granularity	40kW
Output voltage range	Min: 150VDC Max: 1000VDC
Output current	CCS2: 500A MCS: 1000A
Cable length	CCS2: S: 3m / M: 4,5m / XL: 7,5 m / XXL: 10m MCS: Short: 3m / Medium: 4,5m 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, full power and high voltage. Rating at ambient temperature (20°C) as per ISO 3744:1995 class 2
Operating temperature	-30°C to +55°C with derating
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)	955 x 2769 x 1150mm
Weight	<900 kg
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 A EN 61000-6-4, EN 61000-6-2, IEC 61851-21-2 (INDUSTRIAL - ENVIRONMENTS)

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 $\pm 1\%$, two possible configurations: – Eichrecht (Germany and Austria) – MID / LNE (LNE: for France; MID: for the rest of Europe)
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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)
Status indication	LED strips
HMI / User interface	15" IK10 anti-vandalism LCD colour touch-screen
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/IEC 15118-2, ISO/IEC 15118-20, DIN 70121 MCS: ISO/IEC 15118-20

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	520kW / 400VAC: 750A 520kW / 480VAC: 625A
Short circuit current rating (SCCR)	75kA
Power factor	> 0.99
Efficiency	Up to 97.5%
Surge protection device	Type 2 + 3

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

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