TRAPEZIUM XL

Enovates public chargers, a reference for charging electric vehicles in many countries.

Thanks to the large number of practical functions, they allow to set up a reliable charging infrastructure that meets your specific needs, even under the most difficult conditions.

This attractive and robust charging station with two type two sockets and a domestic plug has an anti-graffiti powder-coated, plate steel casing. The sloping top ensures that dirt is removed easily and the trapezium shape allows the charging cables to naturally lie in the direction of the car to be charged. It's spacious, extra wide housing allows to host for example a digital energy meter and electrical cabinet, allowing direct connection to the grid without any cabinet in between. It's even possible to integrate a detection loop module to communicate unauthorized parking which could maximize the revenue of the Trapezium XL.

The Enovates Trapezium XL series has a user-friendly LED-based interface, indicating the charging status of each EV socket. This makes it easy for drivers to monitor the charging process and ensures that they know when their EV is fully charged. The charging station can be personalized to your corporate identity so your brand stands out on any parking lot.

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TRAPEZIUM XL

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Technical specifications

PRODUCT INFORMATION	TRAPEZIUM XL
Charging Mode	Mode 3
Connector Type	2 x Type 2 (EU) with shutter + 1 x Type E outlet
Input/output power rating and current	Up to 22 kW/32A per EVSE
Input/output voltage	400 V AC , 50 Hz
Network Type	TT, TN, IT**
Max. input cable diameter	25 mm² solid or stranded wire with ferrules
Energy measurement	MID certified class B meter per EVSE
Stand-by power consumption	7,4 W
OPERATING CONDITIONS	
IP and IK Rating	IP 54, IK 10
Operating altitude	Up to 2000 meters
Operating temperature range	-25°C to +50°C (automatic derating curve to protect inner components)
Storage temperature range	-25°C to +70°C
Max. allowed density (in operation)	≤ 90 % (non-condensing)
Humidity	10% to 95% relative humidity at max. +25°C
Environmental conditions & access	Outdoor use, equipment for locations with non-restricted access
GENERAL CHARACTERISTICS	
Dimensions (H x W x D)	1490 x 650 x 280 mm
Weight	67 kg
Standard color	RAL7043 (traffic grey), other colors and logo application in option
Enclosure	Powder-coated steel casing with anti-graffiti layer, enclosure with increased corrosion protection in option
Mounting	Ground mounting with optional anchor
INTERFACES	
Status indication	Via multi colored LED (1 LED for each EVSE)
User interface	Via QR code provided by the CPO
Authentication method	Plug & charge, Plug & charge via ISO 15118-2* (optional), RFID badge (multiprotocol, 1 for each EVSE)
Communication protocols	OCPP 1.6J including security whitepaper for TLS, OCPP 2.0.1*, dual socket ISO 15118* (with optional ISO 15118 module), Modbus RS485
Connectivity	4G with fallback to 2G, Ethernet RJ45, RS485
SMART FEATURES	
Smart charging	Basic load management, load scheduling, Intelligent® Smart Charging & Inter-phase® Smart Charging
Load shedding	Via optional hardware including eDSB, eDLB or eDP1B module
EMS integration	Via Public API and with optional compatible hardware
BiDirectional Charging (V2G AC)	ISO15118-20* — via optional ISO 15118 module and optional license
Master license to create a charging plaza	Via optional license
Vehicle Detection System	Via optional hardware
PROTECTIONS	
Short circuit protection	40A 4P C curve for each EVSE
Residual current circuit breaker	30 mA Type A for each EVSE
Leakage current protection	6 mA DC leakage current detection on each EVSE
Integrated sensors	Temperature and tilt sensors
Electrical safety class	Class I
CERTIFICATION	
Certification	RED (2014/53/EU) CE, AREI, NEN1010
According to standards/norms	IEC 61851-1 (ed. 3), IEC 61851-21-2, EMC class A, EV-ready
Directives	WEEE (2019/19/EU), REACH (EC 1907/2006), RoHS2 (2011/65/EU)
Warranty	2 years

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* On 2024 roadmap

** Not all vehicles support the IT system. In that case, or with 3-phase charging, an isolation transformer is required

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Technical specifications are subject to change without prior notice.