VESTEL
MOBILITY

Data sheet

DC Stella 720

Ideal for high-demand environments, this state-of-the-art charging station provides rapid charging and smart management of resources, perfect for commercial or public spaces.

vestel-evchargers.com

Highlights

Version: 02/2025

- 720 kW Power Cabinet
- Up to 8 socket with 4 dispenser
- Dynamic Load Balancing between sockets
- 27 inch user interface and advertisement screen
- Advanced cable management system
- Optimal solution for quick charging

Highlights

Version: 02/2025

Designed to efficiently charge heavy electric vehicles such as trucks and buses, DC Stella 720 charging station takes up minimal space, making it an ideal solution for high-demand fleets and urban environments.

With a large 27-inch screen, our charging station offers a seamless user interface for easy navigation, along with a built-in advertising feature to maximize engagement, all while meeting barrier-free access regulations. It also supports multiple payment methods and is fully compliant with AFIR (Alternative Fuels Infrastructure Regulation) standards for enhanced convenience and regulatory alignment.

The advanced cable management system and ergonomic gun holder design ensure effortless cable extension over long distances, providing the user with enhanced comfort and ease of use for optimal performance.

Highlights

Version: 02/2025

General information

Charging Mode	DC, Mode 4
Number of charging points	1 or 2 for single dispenser unit (Single power cabinet supports 4 dispenser unit)
Charging Connector	CCS2 cable
Cable Lenght	5.50 m with cable retraction unit 4.20 m without cable retraction unit
Measurement	MID DC Meter (Optional)

Mechanical Details

Mounting Type	Base Mounted
Enclosure Material	Metal
Cable Management (Optional)	Cable Retraction
Dimensions (HxWxD)	Power Cabinet :2015.0 mm (H) x 1050.0 mm (W) x 1345.0 mm (D) Dispenser Unit: 2056.0 mm (H) x 637.0 mm (W) x 422.0 mm (D) (without cable retraction unit holders)
Weight	Power Cabinet: 980 kg Dispenser Unit: 300 kg

Electrical Data OF Power Cabinet

Max. Output Power	720 kW
Input Rating	400 Vac ±10 % , 50 Hz , 1150 A / phase
Output Voltage	200-920V
Output Current	750 A (Lower current levels can be provided by the power unit according to the dispenser specifications.)
Power Factor, Efficiency	> 0.98, > 95 %
Noise Level	< 80 dBA avg. from 1m distance from front @25˚ C
Earthing System	3L+N+PE (TN, TT)
IEC Protection Class	Class I
Internal Protections	Over current / Over voltage / Under voltage / Short circuit / Over Temperature / Surge Protection

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Electrical Data of Dispenser Unit

Max. Output Power	720 kW
Input Rating	200 – 920 Vdc, 750 A per charging interface
Output Voltage	200 - 920 Vdc
Output Current	750 A
Noise Level	< 65 dBA avg. from 1m distance from front @25° C
IEC Protection Class	Class I
Internal Protections	RCBO Type-A for internal SELV circuit, Insulation monitoring for DC outputs , Over current / Over voltage / Under voltage / Short circuit / Over Temperature / Surge Protection (Type-1, Type-2)
Other Safety Features	Emergency Stop button (optional), Tilt sensor, Door Switches, Upstream Protection Trip (NC)
Built-in metering	DC meter in accordance with IEC 62052-11:2020
Power Sharing	Dynamic power allocation with 80 kW steps between sockets

Connectivity

Communication interface to IT backend	OCPP 1.6 J, OCPP 2.0.1 (via OTA Update)
Protocols for communication with IT backend	Ethernet GSM 900/1800 UMTS 900/2100 LTE Band 1/3/7/8/20/28A
Authentication methods	RFID (ISO-14443A/B and ISO-15693) AutoCharge using MAC ISO 15118-2 Plug&Charge Contactless Credit Card Reader with PIN on Glass (Optional)
User Interface	Capacitive Touch Screen
Display	27" Color TFT LCD

Highlights

Version: 02/2025

Certification

IP protection class	IP54
Impact resistance	IK10
Approvals	CE, RoHS, REACH, GPSD, WEEE
Standards	IEC 62196-1 / 3 / 3-1, IEC 61851-1 / 23 / 24, ISO 15118-1 / 2 / 3 / 20, DIN 70121, IEC 61851-1 / 23 / 24, IEC 61851-21-2, EN 60068-2-1, EN 60068-2-14, EN 60068-2-2, EN 60068-2-3, IEC 61000-4-5, IEC 61000-4-11, IEC 61000-4-2, VES 30 431, VES 30 404, VES 30 422, VES 30 407, VES 30 439, EN 60068-2-6

Environmental conditions

Environmental operating temperature	-35˚C to + 55 ˚C (Derating is applied over + 45 ˚C)
Humidity	5 % - 90 % (Relative humidity, non-condensing)
Cooling	Power Cabinet : Forced Air Cooling Fan Dispenser Unit : Cable Cooling (Liquid Cooled Cable Using Passive Heat Exchanger with Fan)(Optional)
Areas of use	Internal & External areas
Operating altitude above sea level	0 - 2000m

Highlights

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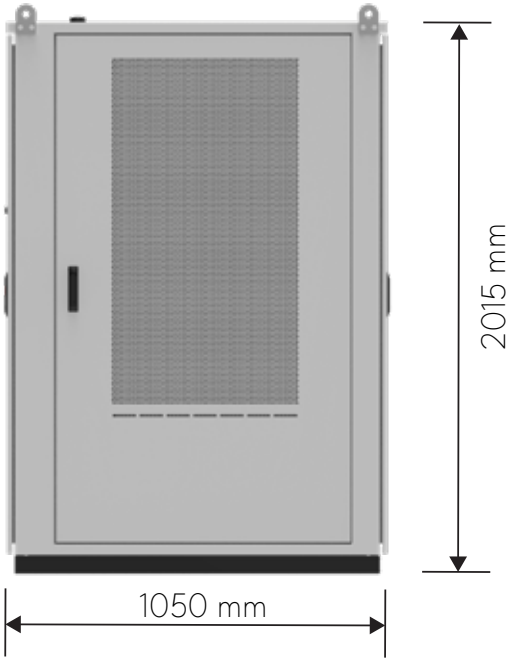
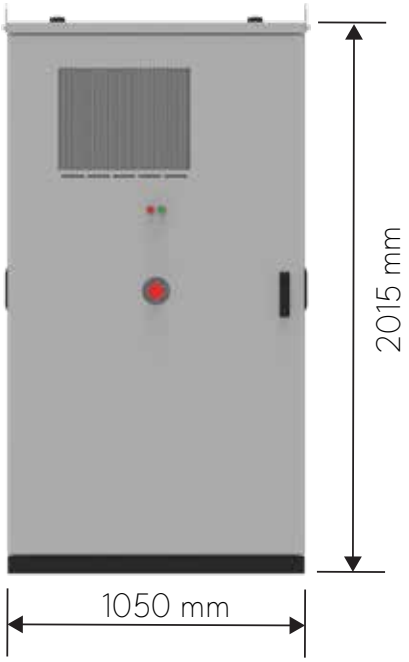
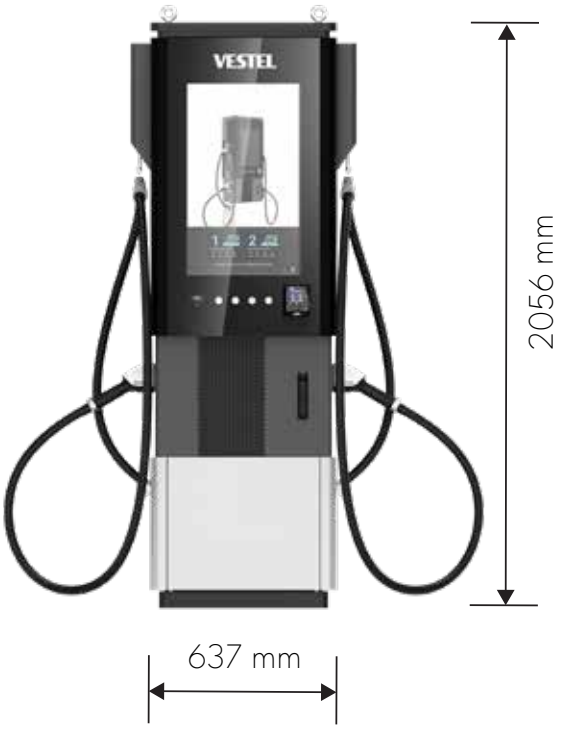
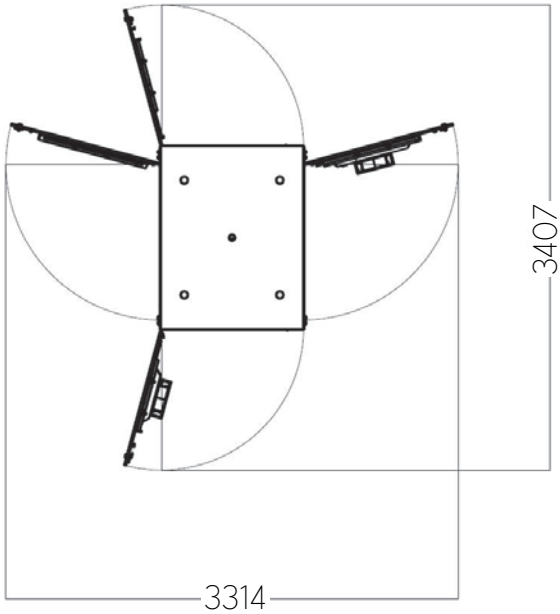
Technical drawing









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