

Data sheet

EVC 03 HPC



More power for quick stops and reliable charging.

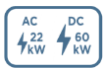
EVC03 rapid charging point for electric vehicles enables scalable and retrofittable power levels 120-150-180 kW

has a modern design and user-friendly interface, mainly for public commercial use.

The modular design increases charger utilization and ease of operation and maintenance.

Highlights

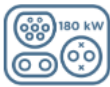
Version: 03/2023



Liquid cooling system for continuous 500 A current



Local and remote load management



Charging with up to 180 kW DC



Connection to IT backends via OCPP 1.6J



DC charging of two electric vehicles in parallel



Ready for ISO 15118



Online via cellular, Wi-Fi and Ethernet



Interaction via 10.4" touch display



Highlights

Version: 03/2023

Contactless Payment with credit card reader

Beside RFID card, QR code and mobile payment method, optional credit card reader is placed on EVC 03. This gives the charge point operator more possibilities to install fast charging stations.



Big and clear interface for user interaction via touch screen

User interaction is key. Therefore, the Vestel EVC 03 has a big 10.4" touch screen. The restrictive touch technology makes it possible to use the screen even in tough weather conditions or with gloves.

Large and easy to use foiling area for your own branding

Your brand should be in focus and visible for everyone. This is why the EVC 03 has a big and easy to use foiling area on the front. Optionally you can order the product turnkey ready in your corporate design which includes a complete foiling of the product.



Technical data

Version: 03/2023

General information

Charging mode	DC, mode 4
Number of charging points	1-2
Charging connector	DC: CCS, CHAdeMO cable
Cable length	4.5 m
IT backend connection	OCPP 1.6 JSON
Authorization	Free mode, RFID, OCPP remote
Package dimensions (HxWxD)	2260 x 1000 x 950 mm

Mechanical details

Mounting type	Base mounted
Enclosure material	Metal panel
Dimensions (HxWxD)	2040 x 820 x 825 mm
Weight	500 kg

Electrical data

Max. charging output per charge point	CCS: 180 kW; CHADEMO: 100 kW
Input: Nominal voltage, number of phases	400 V _{ac} ±10%, 50/60 Hz, 290 A
Output: Voltage	Single CCS: 200 - 920 V _{dc} Dual CCS: 200 - 500 V _{dc} CHAdeMO: 150 - 500 V _{dc}
Output: Current	CCS: 500 A, CHAdeMO: 200 A,
Power factor, efficiency	> 0.98, > 95 %
Stand-by power consumption	< 100 W
Earthing system	3L+N+PE (TN, TT)
IEC Protection class	Class I
Internal Protection	Residual current sensing, Insulation monitoring, Over current, Over voltage, Under voltage, Short circuit, Over temperature, Surge Protection

Technical data

Version: 03/2023

Connectivity

Communication interface to IT backend	Wi-Fi, ethernet, cellular (2G/3G/4G)
Protocols for communication with IT backend	OCPP 1.6 JSON
Communication with third-party devices	Modbus TCP/IP
Authentication methods	RFID, Credit Card Terminal (optional)
User Interface	High brightness resistive touch screen
Display	10.4" Color TFT LCD (4:3)

Certification

IP protection class	IP 54
Impact resistance	IK 10
Approvals	CE, RoHS, REACH, GPSD, WEEE
Standards	IEC 61000-6-2/3, IEC62196-1/3, IEC 61851-1/23/24, ISO 15118-1/2/3, DIN 70121, CHAdeMO Rev. 1.2

Environmental conditions

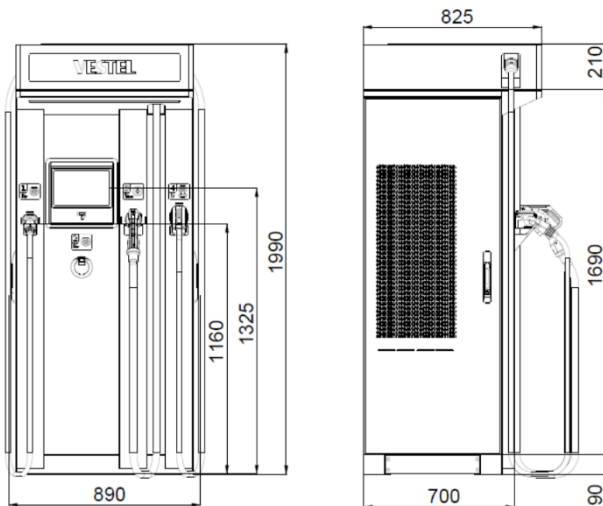
Environmental operating temperature	-35°C to + 50 °C (Derating is applied over + 40 °C)
Humidity	5 % - 95 % (Rel. humidity, non-cond.)
Cooling	Forced air cooling Fan
Areas of use	Internal & External areas
Operating altitude above sea level	0 - 2000 m

Product versions

EVC 03 HPC

EVC03 - HP120C	1 x CCS,120 kW
EVC03 - HP120CC	2 x CCS, 60-60 kW
EVC03 - HP120CH	1 x CCS, 1 x CHAdeMO,120-60 kW
EVC03 - HP150C	1 x CCS,150 kW
EVC03 - HP150CC	2 x CCS, 90-60 kW
EVC03 - HP150CH	1 x CCS, 1 x CHAdeMO,90-60 kW
EVC03 - HP180C	1 x CCS,180 kW
EVC03 - HP180CC	2 x CCS, 90-90 kW
EVC03 - HP180CH	1 x CCS, 1 x CHAdeMO,120-60 kW

Technical drawing



Supplied installation accessories

EVC 03 HPC

M20 Steel Expansion Bolt x4

Special Spanner M50 x M40

Flange M12 Bolts x4

1 set (x2) Lock Keys

RJ45 Male Connector