



Data sheet

EVC03 HPC

More power for quick stops and reliable charging.

EVC03 ultra rapid charging point for electric vehicles enables scalable and retrofittable power levels 240-320-400 kW

It has a modern design, proper full branding and customization, and user-friendly interface.

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

Highlights

Version: 03/2023



Charging power up to 400kw with liquid cooled cable system for continuous 500 A



Local and remote load management



MID Certified DC meter



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 EVC03. 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 EVC03 has seamless 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 standing out and visible for everyone. This is why the EVC03 has a big and easy foiling area on the front for full branding and customization. Optionally you can order the product turnkey ready in your corporate design which includes a complete foiling of the product.



Vandal-proof metal body



Easy Installation & Service



Remote SW update
over OCPP



Remote Diagnostics
over OCPP



Upgrade Ready

Technical data

Version: 03/2023

General information

Charging mode	DC, mode 4
Number of charging points	1-2
Charging connector	DC: CCS cable
Cable length	4.5 m
IT backend connection	OCPP 1.6 JSON
Authorization	Free mode, RFID, OCPP remote
Package dimensions (HxWxD)	2300 x 1000 x 1090 mm
Measurement	MID DC Meter (Optional)

Mechanical details

Mounting type	Base mounted
Enclosure material	Metal panel
Dimensions (HxWxD)	2101 x 846 x 982 mm
Weight	650 kg, 780 kg (with packing)

Electrical data

Max Output Power	1 x 400 kW 2 x 200 kW
Input Rating	400 Vac \pm 10%, 50/60 Hz, 360 A 400 Vac \pm 10%, 50/60 Hz, 612 A
Output: Voltage	Single CCS: 200 - 920 Vdc
Output: Current	Max 500 A (continuous 500A with cooled cable) Max 500 A (nominal 300A with uncooled cable)
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

Environmental conditions

Environmental operating temperature	-35°C to + 50 °C (Derating is applied over + 45 °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

EVC03- HP****

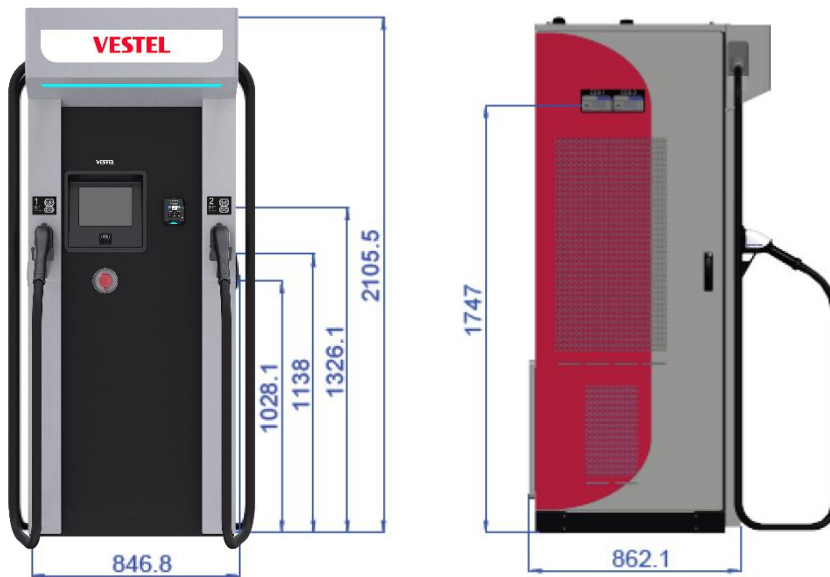
Uncooled Cable System

EVC03 – HP240C	1 x CCS,240 kW
EVC03 – HP240CC	2 x CCS,120-120 kW
EVC03 – HP320C	1 x CCS,320 kW
EVC03 – HP320CC	2 x CCS,160-160 kW
EVC03 – HP400C	1 x CCS,400 kW
EVC03 – HP400CC	2 x CCS,200-200 kW

Liquid Cooled Cable System

EVC03 – HP240LC	1 x CCS,240 kW
EVC03 – HP240LCC	2 x CCS,120-120 kW
EVC03 – HP240LCLC	2 x CCS,120-120 kW
EVC03 – HP320LC	1 x CCS,320 kW
EVC03 – HP320LCC	2 x CCS,160-160 kW
EVC03 – HP320LCLC	2 x CCS,160-160 kW
EVC03 – HP400LC	1 x CCS,400 kW
EVC03 – HP400LCC	2 x CCS,200-200 kW
EVC03 – HP400LCLC	2 x CCS,200-200 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

VESTEL