

VESTEL

Electric Vehicle Chargers

2023 - 2024

www.vestelinternational.com



Electric Vehicle Chargers

AC Series

05 - EVC04

13 - EVC01

21 - EVC05

29 - EVC10

DC Series

39 - EVC06

45 - EVC03



AC SERIES





EVC 04

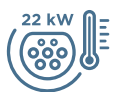


EVC04 is the versatile all-rounder in the AC charging sector.

Fully customizable to fit the purpose, EVC04 is ideal for both private and professional charging requirements.

EVC 04

Highlights



Up to 22 kW AC charging
until 50°C constantly



Local and remote load
management



RFID

RFID activation already
included in



High Secure Data
Communication



4.3" display

Wireless configuration



Online via cellular,
Wi-Fi or ethernet



EVC 04

Highlights

Fully configurable according to use cases

Depending on the equipment, the EVC04 can be used simply in the private sector or with full equipment in professional use cases.



Superior load management functions

EVC04 provides load tracking dynamically in single use or multiple use and offer more room for charging with smart load management.

Operating with solar systems

According to energy production, All green energy can be used for your electric vehicle or grid support can be used together with solar energy.



EVC 04

Technical Data

General information

Charging mode	AC, mode 3
Number of charging points	1
Charging connector	AC Type-2 Socket or tethered cable, Type-1 Tethered Cable
Cable length	5 or 7 meters
IT backend connection	OCPP 1.6 JSON
Package dimensions (HxWxD)	530x405x240

Mechanical details

Mounting type	Wall or pole mounted
Enclosure material	PC Plastic (5VA flame retardant)
Dimensions (HxWxD)	460 x 315 x 135 mm
Weight	5 kg

Electrical data

Max. charging output per charge point	22 kW
Input: Nominal voltage, number of phases	1-P; 230 Vac $\pm 10\%$, 50/60 Hz 3-P; 400 Vac $\pm 10\%$, 50/60 Hz
Output: Voltage	230-400V
Output: Current	10-13-16-20-25-30-32A (AC7 and AC22 series) 10-13-16A (AC11 series)
Stand-by power consumption	<5W
Earthing system	3L+N+PE (TN, TT)
IEC Protection class	Class I
DC Residual Current Sense	6 mA
Built-in RCCB (Optional)	Type-A High Immunity
Internal Protection	Over Current, Over Voltage, Under Voltage, DC/AC Residual Current, Over Temperature, Short Circuit, Socket Interlock, Surge/Lightning, Earth Fault, Phase- Neutral Reverse Detection

EVC 04

Technical Data

Connectivity

Communication interface (Optional)	Number of charging	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		Free mode, RFID, mobile application or OCPP
User Interface		Configuration user interface
Display		4.3"
Built-in MID Meter (Optional)		Accuracy Class B (% 1) Eichrecht approved

Certification

IP protection class		IP 54
Impact resistance		IK 10
Approvals		CE, UL, Eichrecht, RoHS, REACH, GPSD, WEEE
Standards		IEC 61851-1/22/, IEC 60950-1/22, IEC TS-62763,UL 2202,UL 2594,UL 2231- 1/2

Environmental conditions

Environmental operating temperature	-35°C to + 55 °C(+ 50 °C for RCCB or Eichrect equipped models)	
Humidity	5 % - 95 % (Rel. humidity, non-cond.)	
Cooling		NA
Areas of use	Internal & External areas	
Operating altitude above sea level	0 - 4000 m	

EVC 04

Technical Data

Product versions

MODEL DESCRIPTION : EVC04-AC**** - *

EVC04 : Electric Vehicle AC Charger (Mechanical Cabinet 04)

1st Asterisk (*) : Rated Power

7 : 7.4 kW (1Phase Supply Equipment)

11 : 11 kW (3Phase Supply Equipment)

22 : 22 kW (3Phase Supply Equipment)

2nd Asterisk (*) can include combinations of the following communication module

options. RFID reader is standard equipment for all of the model variants. “S” option must be included for selecting combinations of W, L and P:

Blank : No connectivity module except RFID reader

S : Smart Board with Ethernet Port

W : Wi-Fi module or WiFi & Bluetooth module

L : LTE / 3G / 2G module

P : ISO 15118 PLC module

3rd Asterisk (*) can be one of the following:

Blank : No Display

PEN : 4.3” TFT color display

4th Asterisk (*) can be one of the following:

Blank : No RCCB

A : Charging unit with Type-A RCCB

MID : Charging unit with MID meter.

PEN : Broken PEN detection and disconnection function

EICH : Charging Unit with Eichrecht Conformity

5th Asterisk (*) can be one of the following:

Blank : Case-B Connection with normal socket

T2S : Case-B Connection with shuttered socket

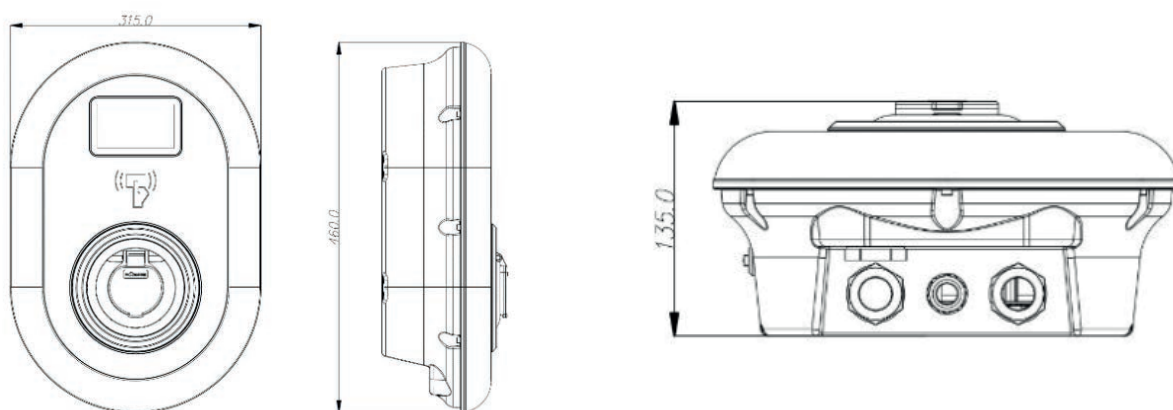
T2P : Case C Connection with Type-2 plug

T1P : Case C Connection with Type-1 plug

EVC 04

Technical Data

Technical drawing



Additional accessories

EVC 04

Metal stand

Power Optimizer for Dynamic Load Management

Current Transformers for Dynamic Load Management



EVC 01

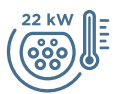


Small but powerfull

Home charging should be seamless. Compact and future proof, the EVC01 also offers a unique style factor.

EVC 01

Highlights



Up to 22 kW AC charging
until 50°C constantly



Local and remote load
management



RFID activation already
included in



High Secure Data
Communication



Wireless configuration



Online via cellular,
Wi-Fi or ethernet



EVC 01

Highlights

Best for your home

Charging at home is the most convenient way of filling the battery. No detours, not checking which price is display at fuel stations. Just drive home, plug in, relax



No need to worry about your grid constraints with smart load management features

Thanks to its smart load management features, the EVC01 can adjust the output power according to your home's consumption. It communicates with solar energy systems and allows you to charge your vehicle only with green energy.

Monitor your charging via Drive Green Next.

With Drive Green Next, you can remotely control the EVC01, schedule your charging process and control power.



EVC 01

Technical Data

General information

AC, mode 3	AC, mode 3
Number of charging points	1
Charging connector	AC Type-2 tethered cable
Cable length	5 or 7 meters
IT backend connection	OCPP 1.6 JSON
Authorization	Free mode, RFID, mobile app., OCPP remote
Package dimensions (HxWxD)	TBD

Mechanical details

Mounting type	Wall or pole mounted
Enclosure material	PC Plastic (5VA flame retardant)
Dimensions (HxWxD)	256 x 256 x 127 mm
Weight	4 kg with cable

Electrical data

Max. charging output per charge point	22 kW
Input: Nominal voltage, number of phases	1-P; 230 Vac $\pm 10\%$, 50/60 Hz 3-P; 400 Vac $\pm 10\%$, 50/60 Hz
Output: Voltage	230-400V
Output: Current	10-13-16-20-25-30-32A (AC7 and AC22 series) 10-13-16A (AC11 series)
Stand-by power consumption	<5W
Earthing system	3L+N+PE (TN, TT)
IEC Protection class	Class I
DC Residual Current Sense	6 mA
Internal Protection	Over Current, Over Voltage, Under Voltage, DC/AC Residual Current, Over Temperature, Short Circuit, Socket Interlock, Surge/Lightning, Earth Fault, Phase- Neutral Reverse Detection

EVC 01

Technical Data

Connectivity

Communication interface (Optional)	Number of charging	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		Free mode, RFID or mobile application
User Interface		Configuration user interface
Display		NA

Certification

IP protection class		IP 54
Impact resistance		IK 10
Approvals		CE, RoHS, REACH, GPSD, WEEE
Standards		IEC 61851-1/22/24/21-2, IEC 60950-1/22, EN 61000-6-1/2/3/4, EN 301 489-1/3/17/52, EN 300 328 , EN 301 893, EN 301 511, EN 301 908-1, EN 300 330

Environmental conditions

Environmental operating temperature		-25°C to + 50 °C
Humidity		5 % - 95 % (Rel. humidity, non-cond.)
Cooling		NA
Areas of use		Internal & External areas
Operating altitude above sea level		0 - 3000 m

EVC 01

Technical Data

Product versions

EVC01-AC****

EVC01 : Electric Vehicle AC Charger (Mechanical Cabinet EVC01)

1st Asterisk (*): Rated Power

7 : 7.4 kW (1Phase Supply Equipment)

11 : 11 kW (3Phase Supply Equipment)

22 : 22 kW (3Phase Supply Equipment)

2nd Asterisk (*) can include combinations of the following communication module

options. RFID reader is standard equipment for all of the model variants. “S” option must be included for selecting combinations of W, L and P:

Blank : No connectivity module except RFID reader

S : Smart Board with Ethernet Port

W : Wi-Fi module or WiFi & Bluetooth module

L : LTE / 3G / 2G module

P : ISO 15118 PLC module

3rd Asterisk (*): Broken PEN Detection Option

Blank : No broken PEN detection functionality

PEN : Broken PEN detection and disconnection function

4th Asterisk (*) can be one of the following for tethered cable length

T2P : Type2 Charging Cable with 5m

T2P7 : Type2 Charging Cable with 7m

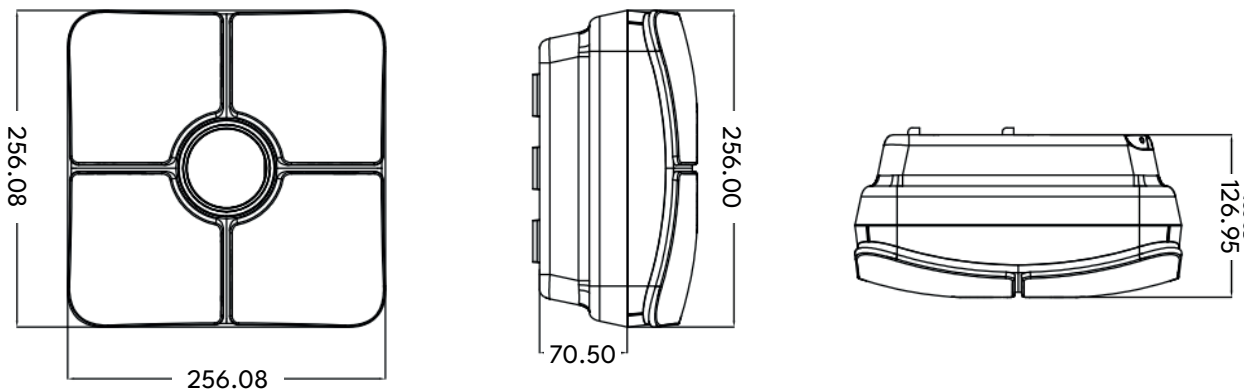
5th Asterisk (*) can be one of the following:

WHT : w/White Cosmetic Cover

EVC 01

Technical Data

Product versions



Additional accessories

EVC 01

Metal stand

Power Optimizer for Dynamic Load Management

Current Transformers for Dynamic Load Management



EVC 05



EVC05 is robust and perfectly equipped for public spaces.

With two charging points in a solid form, charging infrastructure can be set up quickly and cost efficiently.

EVC 05

Highlights



Up to 22 kW AC charging
per charging socket



Easy installation and
service



RFID activation already
included in



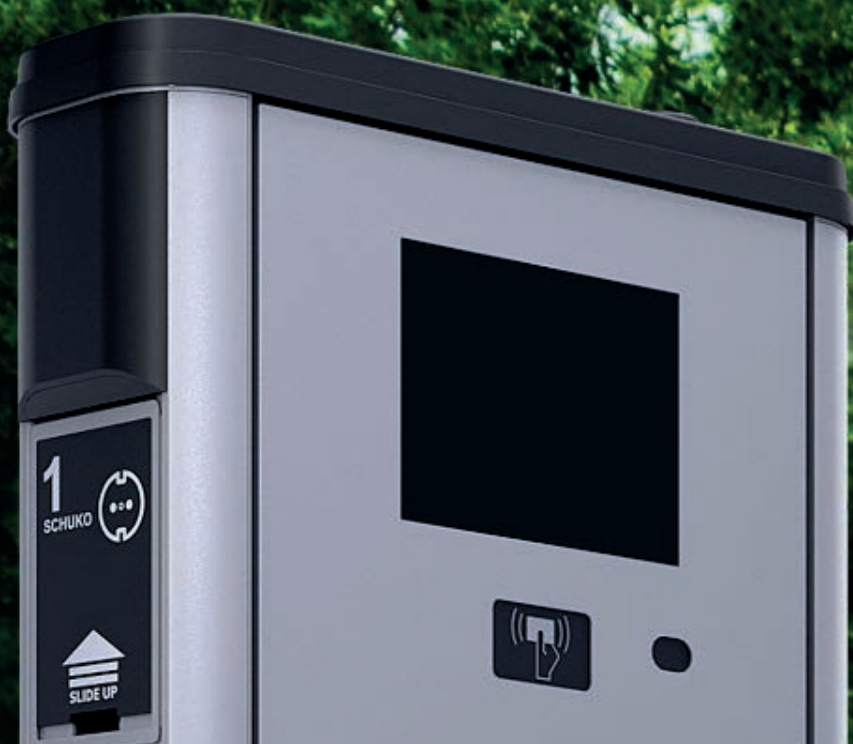
Vandal-proof metal body



10.4" Display



Online via cellular,
Wi-Fi or ethernet



EVC 05

Highlights

Build your charging network in public areas

From car parks to urban charging hubs, EVC05 series are fit for many public charging use cases with all connectivity options. Thanks to its robust structure, EVC05 can be used outdoor in all seasons.



All protection and metering devices included

EVC05 is ready for cost-effective installation with its structure including RCD-A and MCB. RCD-A can be reactivated remotely by using remote reclosure. Also EVC05 provides reliable billing to the end user with MID approved meter.



Big user interface via touch-screen

With resistive touch technology, you can choose your socket and start your charging session even in tough weather conditions



EVC 05

Technical Data

General information

Charging mode	AC, mode 3
Number of charging points	4 (Optional 2 x Schuko Socket)
Charging connector	AC Type-2 Socket or tethered cable and Schuko Type E/F socket (Optional)
Cable length	5 meters
IT backend connection	OCPP 1.6 JSON
Package dimensions (HxWxD)	1575x800x390 mm

Mechanical details

Mounting type	Floor mounted
Enclosure material	Metal
Dimensions (HxWxD)	1530x575x205 mm
Weight	80 kg

Electrical data

Max. charging output per charge point	2x22 kW 2x3.7 kW for Schuko outlet
Input: Nominal voltage, number of phases	1-P; 230 Vac $\pm 10\%$, 50/60 Hz 3-P; 400 Vac $\pm 10\%$, 50/60 Hz
Output: Voltage	230-400V
Output: Current	10-13-16-20-25-30-32A
Stand-by power consumption	< 21W
Earthing system	3L+N+PE (TN, TT)
IEC Protection class	Class I
DC Residual Current Sense	6 mA
Built-in RCCB	Type-A High Immunity (with optional remote reclosure)
Built-in MCB	40A Type C 20A Type C for Schuko Outlets
Internal Protection	Over Current, Over Voltage, Under Voltage, DC/AC Residual Current, Over Temperature, Short Circuit, Socket Interlock, Surge/Lightning, Earth Fault, Phase- Neutral Reverse Detection

EVC 05

Technical Data

Connectivity

Communication interface	Wi-Fi, ethernet, cellular (2G/3G/4G)
Protocols for communication with IT backend	OCPP 1.6 JSON
Authentication methods	Free mode, RFID, OCPP
User Interface	Configuration user interface
Display	10.4"
Built-in MID Meter	Accuracy Class B (% 1)

Certification

IP protection class	IP 54
Impact resistance	IK 10
Approvals	CE, RoHS, REACH, GPSD, WEEE
Standards	IEC 61851-1/21-2, IEC 60950-1/22, IEC TS-62763, EN 61000-6-1/2/3/4, EN 301 489-1/3/17/52, EN 300 328, EN 301 893, EN 301 511, EN 301 908-1, EN 300 330

Environmental conditions

Environmental operating temperature	-25°C to + 50 °C
Humidity	5 % - 95 % (Rel. humidity, non-cond.)
Cooling	NA
Areas of use	Internal & External areas
Operating altitude above sea level	0 - 3000 m

EVC 05

Technical Data

Product versions

MODEL DESCRIPTION : EVC05-AC****-*

EVC04 : Electric Vehicle AC Charger (Mechanical Cabinet 05)

1st Asterisk (*) : Rated Power

44 : 22 kW with dual outlet (3Phase Supply Equipment)

22 : 11 kW with dual outlet (3Phase Supply Equipment)

2nd Asterisk (*) can include combinations of the following communication module

options. RFID reader is standard equipment for all of the model variants. “S” option must be included for selecting combinations of W, L and P:

Blank : No connectivity module except RFID reader

W : Wi-Fi module or WiFi & Bluetooth module

L : LTE / 3G / 2G module

3rd Asterisk (*) can be one of the following:

D : 10.4” display with touchscreen

4th Asterisk (*) can be one of the following:

MID : Charging unit with MID meter.

5th Asterisk (*) can be one of the following:

Blank : No RCCB reclosure

R : Charging unit with RCCB Reclosure Unit

6th Asterisk (*) can be one of the following:

Blank : No Schuko Outlet

S : Charging unit with Schuko Outlet

7th Asterisk (*) can be one of the following:

Blank : Case-B Connection with normal socket

T2S : Case-B Connection with shuttered socket

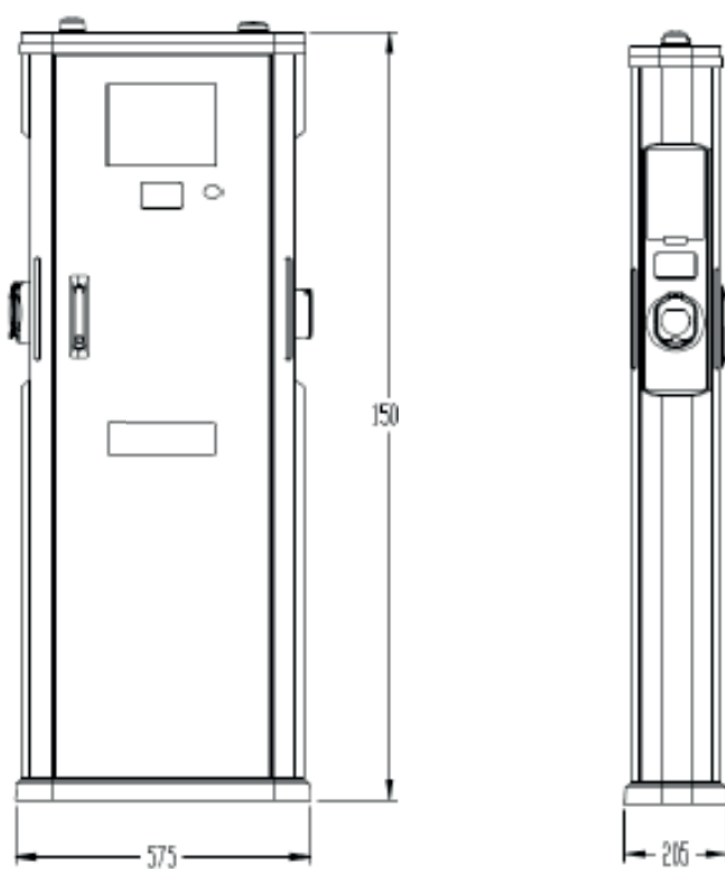
T2L : Case-B Connection with LID socket

T2P : Case C Connection with Type-2 plug

EVC 05

Technical Data

Technical drawing





VESTEL

EVC 10

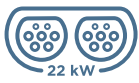


EVC10 is the perfect solution for private and semi-public applications.

Double socket in a compact enclosure, EVC10 simplifies cluster installations for mass charging requirement.

EVC 10

Highlights



Up to 22 kW AC charging
per charging socket



Local and remote load
management



RFID activation already
included in



High Secure Data
Communication



7" Display



Online via cellular,
Wi-Fi or ethernet



EVC 10

Highlights

Fit your semi-public/ public applications

EVC10 is suitable for semi-public environment such as works, supermarket or hotels. It supports simultaneous charging with two socket in one case. EVC10's case is designed for cutting edge charging experience with its easy use.



Large and usefull area for your own branding

EVC10 provides flexible customization choises with IML technology. It can be ordered with full corporate design which will be visible for everyone.

Load Management Functions

EVC10 is suitable for your multiple installation cases with load management functions which allows to prevent grid overload.



EVC 10

Technical Data

General information

Charging mode	AC, mode 3
Number of charging points	2
Charging connector	AC Type-2 Socket or tethered cable
Cable length	5 or 7 meters
IT backend connection	OCPP 1.6 JSON
Package dimensions (HxWxD)	540x640x315

Mechanical details

Mounting type	Wall or pole mounted
Enclosure material	PC Plastic (5VA flame retardant)
Dimensions (HxWxD)	425 x 600 x 238 mm
Weight	14 kg

Electrical data

Max. charging output per charge point	1x22 kW 2x11 Kw (Simultaneous Charge)
Input: Nominal voltage, number of phases	1-P; 230 Vac $\pm 10\%$, 50/60 Hz 3-P; 400 Vac $\pm 10\%$, 50/60 Hz 230-400V
Output: Voltage	230-400V
Output: Current	10-13-16-20-25-30-32A
Stand-by power consumption	< 15W
Earthing system	3L+N+PE (TN, TT)
IEC Protection class	Class I
DC Residual Current Sense	2 x 6 mA
Built-in RCCB (Optional)	2 x Type-A High Immunity
Internal Protection	Over Current, Over Voltage, Under Voltage, DC/AC Residual Current, Over Temperature, Short Circuit, Socket Interlock, Surge/Lightning, Earth Fault, Phase- Neutral Reverse Detection

EVC 10

Technical Data

Connectivity

Communication interface	Wi-Fi, ethernet, cellular (2G/3G/4G) (Optional)
Protocols for communication with IT backend	OCPP 1.6 JSON
Communication with third-party devices	Modbus TCP/IP
Authentication methods	Free mode, RFID, OCPP
User Interface	Configuration user interface
Display	7"
Built-in MID Meter (Optional)	Accuracy Class B (% 1) Eichrecht approved (from November 2023)

Certification

IP protection class	IP 54
Impact resistance	IK 10
Approvals	CE, RoHS, REACH, GPSD, WEEE
Standards	IEC 61851-1/22/, IEC 60950-1/22, IEC TS-62763

Environmental conditions

Environmental operating temperature	-25°C to + 50 °C
Humidity	5 % - 95 % (Rel. humidity, non-cond.)
Cooling	NA
Areas of use	Internal & External areas
Operating altitude above sea level	0 - 2000 m

EVC 10

Technical Data

Product versions

MODEL DESCRIPTION : EVC010AC****-*

EVC10 : Electric Vehicle AC Charger (Mechanical Cabinet 10)

1st Asterisk (*) : Rated Power

22 : 11 kW (3Phase Supply Equipment)

2nd Asterisk (*) can include combinations of the following communication module

options. RFID reader is standard equipment for all of the model variants. “S” option must be included for selecting combinations of W, L and P:

Blank : No connectivity module except RFID reader

S : Smart Board with Ethernet Port

W : Wi-Fi module or WiFi & Bluetooth module

L : LTE / 3G / 2G module

3rd Asterisk (*) can be one of the following:

D : 7” TFT color display

4th Asterisk (*) can be one of the following:

A : Charging unit with Type-A RCCB

MID : Charging unit with MID meter.

PEN : Broken PEN detection and disconnection function

EICH : Charging Unit with Eichrecht Conformity (From November 2023)

5th Asterisk (*) can be one of the following:

Blank : Case-B Connection with normal socket

T2S : Case-B Connection with shuttered socket

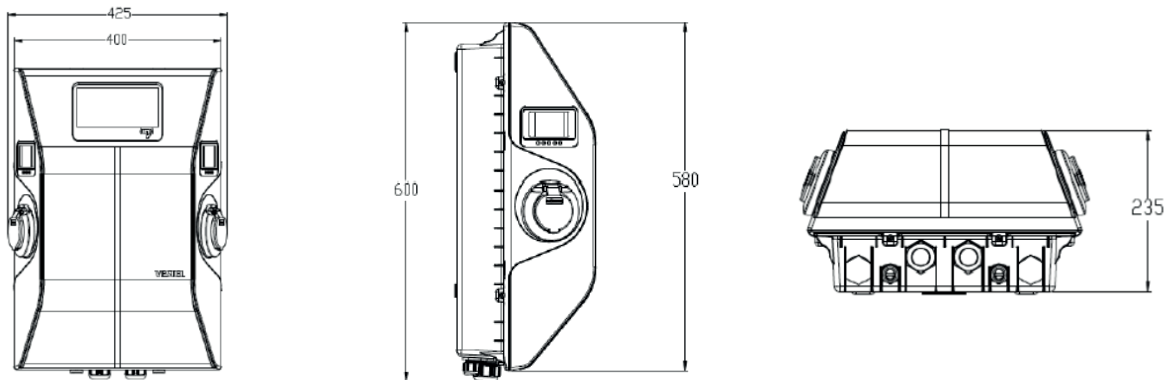
T2P : Case C Connection with Type-2 plug

T1P : Case C Connection with Type-1 plug

EVC 10

Technical Data

Technical drawing



Additional accessories

EVC 04

Metal stand

Power Optimizer for Dynamic Load Management

Current Transformers for Dynamic Load Management



DC SERIES





EVC 06



Slim but yet
powerful,
charging two EVs
simultaneously.

The VESTEL EVC 06 is making urban fast charging look good.

With up to three charging points in a solid enclosure and a small footprint it can deliver charging for urban areas.

EVC 06

Highlights



Charging with up to 60 kW DC and 22 kW AC



Local and remote load management



Up to 3 charging connectors on one charging station



Connection to IT backends via OCPP 1.6J



DC and AC charging of two electric vehicles in parallel



Ready for ISO 15118



Online via cellular, Wifi and Ethernet



Interaction via 10.4" touch display



EVC 06

Highlights

Slim shape for ideal space management at the charging site

With only 350 mm of depth the Vestel EVC 06 can be placed also in very narrow spaces, even directly in front of a wall. This gives the charge point operator more possibilities to install fast charging stations.

The clever two part design makes the EVC 06 appear even slimmer as the dark back part disappears optical- ly in contrast to the lighter design front.



Big and clear interface for user interaction via touch screen

User interaction is key. Therefore the Vestel EVC 06 has a big 10.4" touch screen. The resistive 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 06 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.



EVC 06

Technical Data

General information

Charging mode	AC, mode 3 / DC, mode 4
Number of charging points	2 - 3
Charging connector	AC: Type 2 socket, DC: CCS
Cable length	3.5 m
IT backend connection	OCPP 1.6 JSON
Authorization	Free mode, RFID, OCPP remote
Package dimensions (HxWxD)	2000 x 950 x 590 mm

Mechanical details

Mounting type	Base mounted
Enclosure material	Metal panel
Dimensions (HxWxD)	1754 x 684 x 421 mm
Weight	280 kg

Electrical data

Max. charging output per charge point	AC: 22 kW; DC: 60 kW
Input: Nominal voltage, number of phases	400 Vac $\pm 10\%$, 50/60 Hz, 130 A
Output: Voltage	Single CCS: 200 - 920 Vdc Dual CCS: 200 - 500 Vdc Type 2: 400 Vac
Output: Current	CCS: 200 A, Type 2: 32 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 Protections	Residual current sensing, Insulation monitoring, Over current, Over voltage, Undervoltage, Short circuit, Over temperature, Surge Protection

EVC 06

Technical Data

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
Status indicator	Bright LEDs per charging point
Display	10.4" Color TFT LCD (4:3)

Certification

IP protection class	IP 54
Impact resistance	IK 10
Meter / German calibration law	MID meter certified, Eichrecht optional
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 + 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

EVC 06

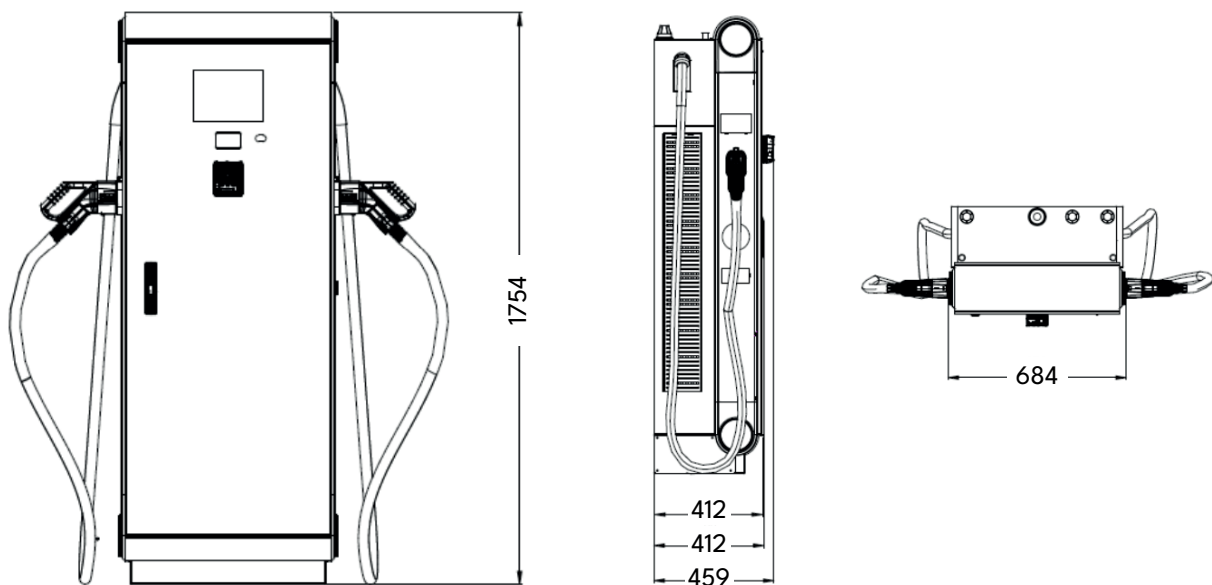
Technical Data

Product versions

EVC 06

EVC06HC - DC60CCS	2 x CCS, 1 x Type 2
EVC06HC - DC60CS	1 x CCS, 1 x Type 2
EVC06HC - DC60C	1 x CCS
EVC06HC - DC60CC	2 x CCS

Technical drawing



Supplied installation accessories

EVC 06

M20 Steel Expansion Bolt x4

Special Spanner M50 x M40

Flange M12 Bolts x4

1 set (x2) Lock Keys

RJ45 Male Connector

EVC 03



More power for quick stops and reliable charging.

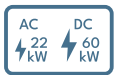
EVC03 rapid charging point for electric vehicles enables scalable and retrofittable power levels 120-150-180 kW

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.

EVC 03

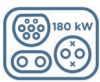
Highlights



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



EVC 03

Technical Data

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 toughweather 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.



EVC 03

Technical Data

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 Vac $\pm 10\%$, 50/60 Hz, 290 A
Output: Voltage	Single CCS: 200 - 920 Vdc Dual CCS: 200 - 500 Vdc CHAdeMO: 150 - 500 Vdc
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 Protections	Residual current sensing, Insulation monitoring, Over current, Over voltage, Undervoltage, Short circuit, Over temperature, Surge Protection

EVC 03

Technical Data

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

EVC 03

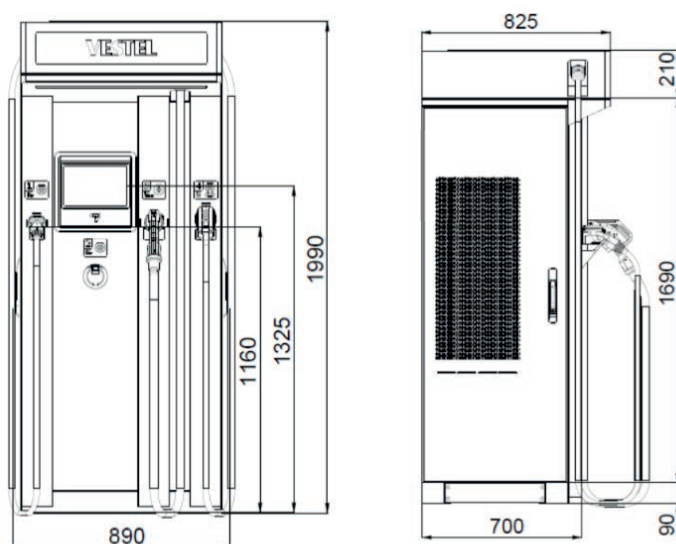
Technical Data

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 CHAdMO, 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 CHAdMO, 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 CHAdMO, 120-60 kW

Technical drawing

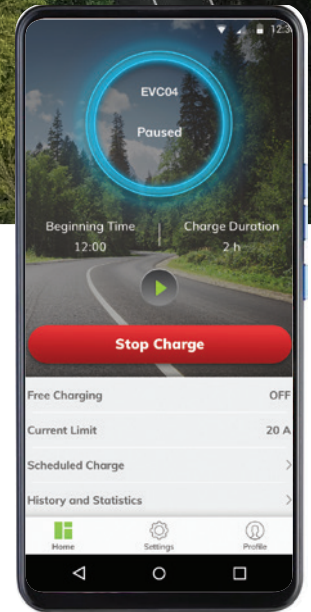
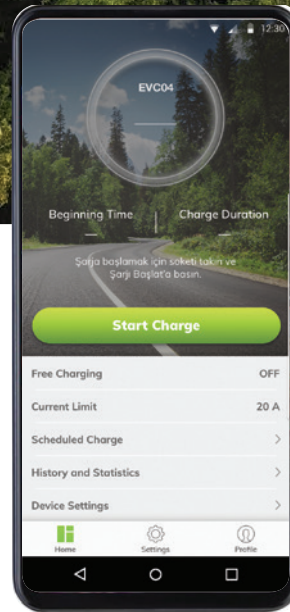
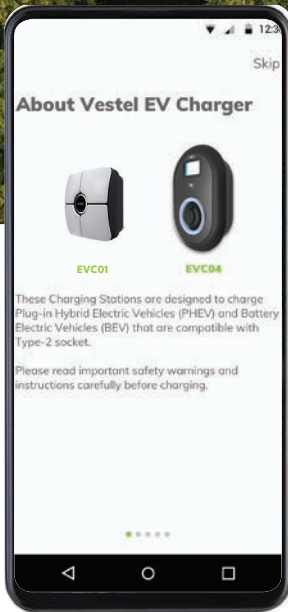


Supplied installation accessories

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

Drive Green Next

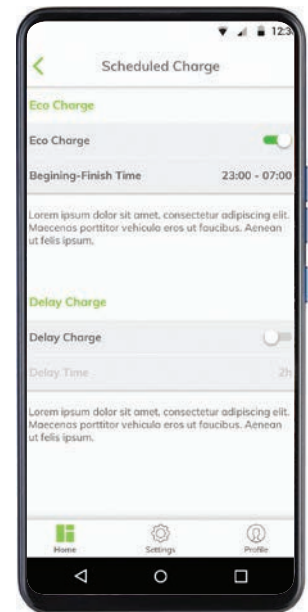
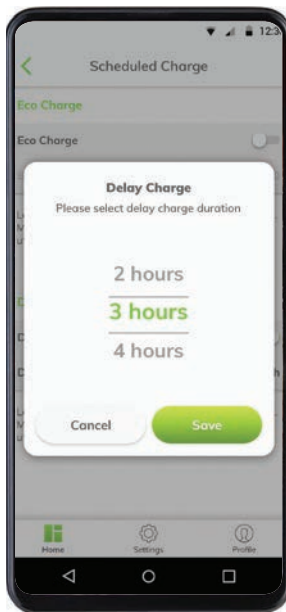


Configuration

Based on your device properties you can select bluetooth or Wi-Fi configuration.

Charging

You can start, pause or stop your charging session Drive Green.



Delay charging

It is possible to delay the charging session by setting the delay time. Even you plug your car to the charger, the charging starts after the delay period. It is always possible to start charging whenever you want.

Eco charge

It is possible to set Eco Charge hours in order to charge the EV while the electricity costs are less. You can set the off-peak hours and your EV will be charged only during off-peak.



Drive Green!



Drive Green is the mobile application designed to configure, control and monitor Vestel smart charger.

Charging history

It is possible to monitor last 10 charging sessions and also brief data on daily, monthly and yearly usages.

Load Management

Why do we need load management?

Load management is important in order to;

- » Reduce installation and operation cost
- » Increase charging network efficiency
- » Prevent network overloading and blackouts

3.1. Individual Installations

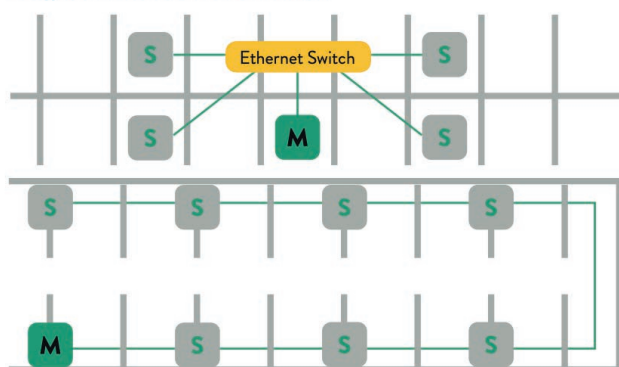


A power limit can be set and the charger won't go above the power limit.

Thanks to dedicated power optimizer option our chargers can manage the power limit based on the available power. When the household appliances consumes more the charger consumes less and don't overload the main switch.

3.2. Cluster Installations

2 different Master/Slave clusters



Different scenarios

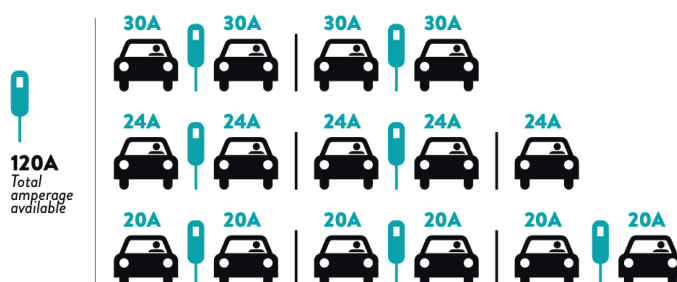
Equally shared : All available power is distributed equally to all EVs connected. This is more suitable for workplace or condominium chargings where the cars are parked for a considerable period of time.

Star

In star network topology all chargers connected to the master via a switch.

Daisy Chain (Serial)

In case of an in-line network topology all chargers connected to each other with in-out connections. The master station is positioned at one end of the line.





First-In, First-Out (FiFo)

This type of load management is more oriented for fleets in order to let them have more fully charged EVs when they need. The available power is redistributed and when a new EV arrives it waits until an EV finishes its charge or leaves the charging point.

EVSE\T _p	GM=120A				GM=80A		
	T ₁	T ₂	T ₃	T ₄	T ₅	T ₆	
1	32 A	32 A 🚗	32 A 🚗	32 A 🚗 1	6A ↓ 🚗	6A	6A
2	32 A	32 A 🚗	32 A 🚗	32 A 🚗	32 A 🚗	32 A 🚗	32 A 🚗
3	32 A	32 A 🚗	32 A 🚗	32 A 🚗	32 A 🚗	32 A 🚗	32 A 🚗
4	32 A 2	4 A	24 A 🚗 1	8 A 🚗	32 A 🚗	32 A 🚗 6	A 🚗
5	32 A 2	4 A 6	A	6A 🚗 8	A 🚗 2	4A 🚗 6	A 🚗

* T_p: Time Period, GM = Maximum Grid allocated for the chargers. Available maximum current for each EVSE in a certain Tp is indicated in black color. Charging current which is drawn by EV is indicated in Blue color. An EV drawing less current is indicated by “↓” symbol.

Combined load management

Combined load management is a combination of FiFo and Equally shared methods. A percentage of total power allocated for EV charging cluster can be set and this percentage of total power distributed to all EVs according to FiFo and the remaining power will be delivered as equally shared principal to all EVs.

F%=50	G _M =120A						G _M =80A	G _M =29A	G _M =30A	
EVSE\T _p	T ₁	T ₂	T ₃	T ₄	T ₅	T ₆	T ₇	T ₈	T ₉	T ₁₀
1	32 A	32 A 🚗	32 A 🚗	32 A 🚗 2	0A ⬇️ 🚗	6A ⬇️ 🚗 6	A 🚗	8A	🚗	6 A 🚗
2	32 A	32 A 🚗	32 A 🚗	32 A 🚗	32 A 🚗	32 A 🚗	32 A 🚗	32 A 🚗 1	1 A 🚗	6 A 🚗
3	32 A	32 A 🚗	32 A 🚗	32 A 🚗	32 A 🚗	32 A 🚗	26 A 🚗	26 A 🚗 6	A 🚗	6 A 🚗
4	32 A 2	4 A	24 A 🚗 1	2 A 🚗 2	4 A 🚗	32 A 🚗	A 🚗 1	0A 🚗 1	6A 🚗	6 A 🚗
5	32 A 2	4 A 1	2A	12A 🚗 1	2A 🚗 1	8A 🚗 8	A 🚗 1	0A 🚗 1	06A 🚗	6 A 🚗

* T_p: Time Period, GM = Maximum Grid allocated for the chargers. Available maximum current for each EVSE in a certain Tp is indicated in black color. Charging current which is drawn by EV is indicated in Blue color. An EV drawing less current is indicated by “↓” symbol.

Load management via OCPP

A Charge Point Management Platform (Backend) can also be used to use load management. Depending on the dynamic load management support on backend system, different use case scenarios can be realized.

Vestel EVC products support OCPP 1.6J and can work with different backend platforms.

Notes

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Notes

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