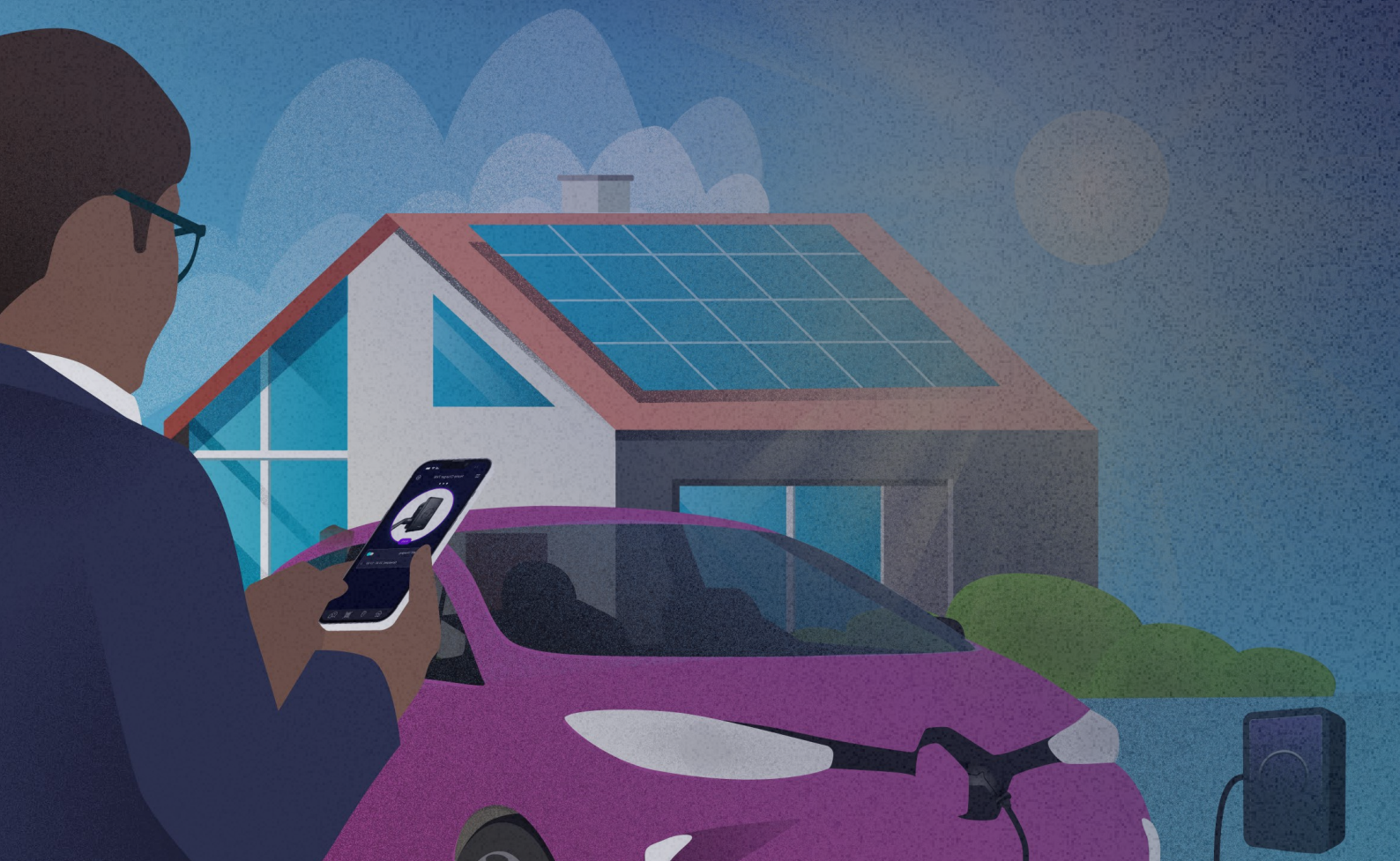
POWERVERSE

VCHRGD Seven Charger

User Guide & Technical Specifications

Contents



VCHRGD Seven Charger

The VCHRGD Seven is a smart 7.4kW electric car charger with a variable power output from 6A to 32A. The charger has Auto Power Balancing capabilities with PEN fault and RCD protection integrated. Its sleek matte black finish is complemented by an impressive feature set to ensure the charging of your electric car is safe, fast and convenient at all times.

The VCHRGD Seven is available as a tethered or untethered charger:

Tethered

Customers who always charge their car at home often prefer a tethered charger, that is, one with a permanently attached cable. The VCHRGD Seven tethered charger includes a Type 2 connector on a 5m cable.

You can keep the connector of your tethered cable protected by connecting it to the dummy socket on the side of the charger. To release the connector from the dummy socket, press the connector release button beside it.

Untethered

An untethered charger is often preferred by customers who want more flexibility in how and where they charge. The untethered version of the VCHRGD Seven charger has a universal connector into which you can plug your own charging cable.

The socket cap protector on the side of the untethered VCHRGD Seven charger protects the socket against the elements. Keep this in place whenever your charging cable is disconnected.

VCHRGD Seven Charger Unit

Connector Release Button

On the tethered VCHRGD Seven charger there is a connector release button. Press this to release the connector from the dummy socket.

Plugging in

For untethered units, lift the protective cap covering the socket and connect your vehicle charging cable to your electric car and the VCHRGD Seven charger.

For tethered units, press the connector release button to release the Type 2 connector from the dummy socket, unravel the cable and connect to your vehicle charge socket.

Using the VCHRGD RFID Cards

The VCHRGD Seven charger is designed to maximise the convenience of charging at home. For those moments when you don't have your phone, or don't want to open the app, you can authenticate a charging session simply by tapping one of your VCHRGD RFID cards over the 'V' logo on the VCHRGD Seven charger. A beep will sound to confirm that the card has been read successfully and charging will begin. The LED on the front of the charger will turn to a solid green colour to indicate that it is charging.

LED Status Display

If you don't want to open the app to identify the status of your charger, you can look at the LED display on the front of the VCHRGD Seven charger. The colour and light pattern displayed will correspond to the status of the charger:

Solid Blue: The charger has power and is in Standby Mode.

Flashing Green: The charger is in Preparing Mode and is getting ready to start charging. If Authentication is enabled, you will need to authorise the charging session via the app or RFID card to start charging.

Solid Green: Charging Mode and currently charging.

Flashing Red: The charger has a fault; please contact Customer Support to resolve the issue.

No Light: The charger does not currently have power. Check your circuit breaker in case it has tripped; if it has, reset the circuit breaker and check the light again. If the light remains off, contact Customer Support to resolve the issue.

VCHRGD Seven Features

Solar Compatible

Diverts excess solar to your EV whenever it's plugged in

Auto Power Balancing

Monitors your home's energy use and sends less to the EV charger if it is needed more elsewhere in the home

3 Year Warranty

Full cover and support service

Secure Design

Protected against the weather and improper use

Connected

Communicates via Wi-Fi to your home router and mobile app

Charger Options

Tethered with 5m cable and Type 2 connector with integrated holster and cable wraparound, or untethered with universal Type 2 socket

LED Status Display

Instantly identify the charger status without needing to open the mobile app

PEN Protection

No additional earthing rod required for installation. RCD Type A leakage and welding detection

Quick to Install

Intuitive design with simple bracket mount for fast installation

Technical Specifications

Electrical Characteristics

Charger Type	Mode 3 (IEC61851-1)
Nominal Supply	Single phase 230V, 50/60Hz
Charging Power	Up to 32A (7kW)
Over Current Protection	40A
Current Rating	5 Steps Adjustable (6A to 32A)
Standby Power Consumption	<2.5W
Earth Leakage Protection	AC 30mA + DC 6mA
PEN Protection	PE Current >100mA
Supply Connection	L, N + PE

Connectivity Specifications

WiFi	(IEEE 802.11bgn) @2.4Ghz WPA-2
Connection Security	Transport Layer Secure Encryption HTTPS

Mechanical Features

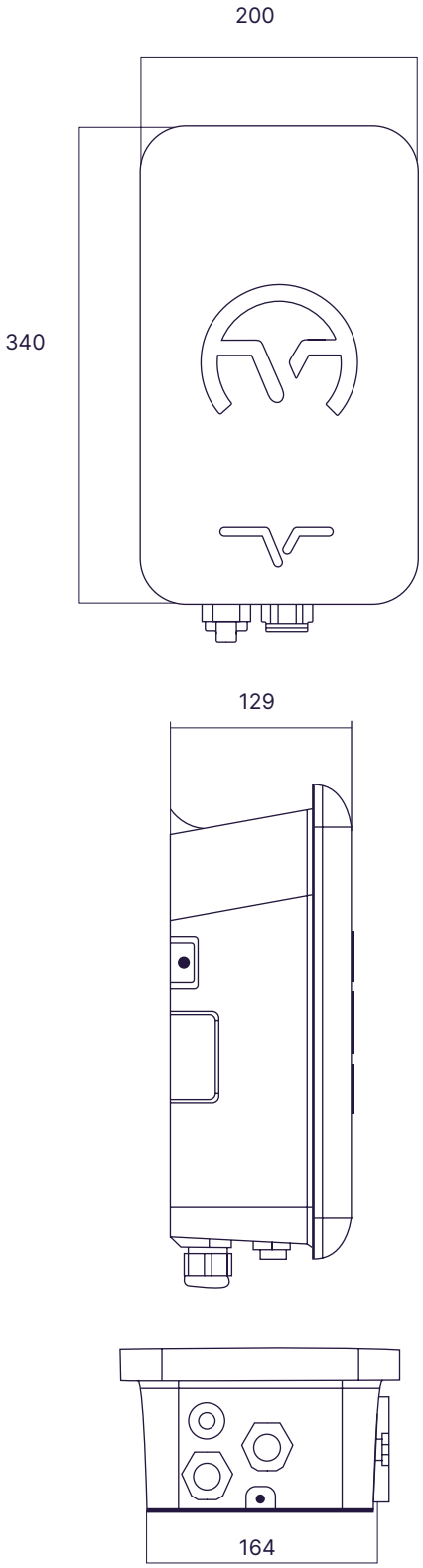
Connector	Type 2 IEC62196
Mounting	Wall or Pedestal
Dimension (mm)	200(L) 340(H) 136(D)
Weight	4kg approx. (excl. charging cable) 5kg w/ cable
IP Class/IK Class	IP55

Safety & Operational Ratings

Status	LED Indication
Operating Ambient Temperature	-25 C to 50°C
Relative Humidity	5% - 90%
Atmospheric Pressure	80kPA - 110kPA
EMC Compliance	EN55011 Class B
Integral Protection	Under & Over Voltage & Current 6mA DC Leakage Detection O-PEN Undergrounded
Current Measurement Accuracy	≥2% Accuracy

Compliance & Certification

Certification	IEC61851-1:2017 / IEC61851-22 2:2018 / LVD 2014/35/EU / BS7671: 2018 / EN61000-3-11 / EN61000-2-2 EMCD 2014/30/EU
Protocol	OCPP 1.6
CE Certified	YES




POWERVERSE