

SCVCN

SMART 7KW CHARGER

chrgd

Datasheet V2.4

SCVCN







Simply Smart.

A smart 7kW EV charger built with high reliability and low cost in mind. A smart 7kW charger with a variable output from 6 to 32A. With built in load management, PEN fault & RCD protection and simplified installation with no need for the front case to be removed. Its sleek matte black finish is complimented by an impressive feature set and smart tariff integrations, to ensure you're fully in charge at all times

3 YEAR WARRANTY
Offering full cover and support service.

2 CHARGER OPTIONS
Tethered with 5m cable or universal socket.

1 FREE TO USE APP
Charge scheduling, history, authentication and more…

Load Balancing
Hard wired dynamic load balancing with CT provided in box. Never overload your main supply

Robust Casing
Robust IK10 rated ABS casing. Chargers built to last in any environment

RFID
Built-in RFID reader for easy charge card registration and local charge authorisation

Cable Lock
Turning untethered chargers into tethered at the touch of a button. Secure your cable.

Anti-Tamper
Magnetic anti-tamper switch built in for case open detection and emergency cut-off

OCPP 1.6
OCPP 1.6 compliant for easy integration with plethora back-end service providers

Universal Socket
Universal Type 2 socket or tethered 5 metre Type 2 cable built in for the same price.

Secure
Compliant with all UK smart charging standards & encrypted bluetooth, WiFi & RFID.

PEN Protection
Simplified installation and reduced project costs, through built in OPEN protection

Solar Integration
Our chargers monitor your solar export allowing you to charge for free with a single CT

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VCHRGD Home.



At VCHRGD we think EV charging should be easy, and the VCHRGD Home App is designed to give you complete control over your charging, at home or on the go. The VCHRGD Home app is free to download and free to use. Complete with a comprehensive set of features allowing you to: schedule, authorise, monitor and track your charge sessions over time.

Solar Charging
Solar only, solar + scheduling and adjustable export sensitivity and grid load all in app

Scheduling
Set your charger up to charge when it's cheapest for you, smart tariff integration and more

RFID
Easily register new tap & charge cards for local charge authorisation & security

Cable Lock
Turning untethered chargers into tethered at the touch of a button. Secure your cable easily

Charge History
Track your charging history, costs timings, average power output and visual schedules

Live Chat
Built in Live Chat feature, putting our UK technical team in the palm of your hand

works with octopus

GET IT ON Google Play

Download on the App Store

Smart charging as standard.

Choice is important so we're also available on...

MONTA

POWERVERSE

Clenergy EV

tap



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Specifications.

Available in tethered complete with a 5m length cable and European Standard Type-2 connector, or untethered with a universal Type-2 Socket , it's an ideal choice for domestic charging.
Integral O-PEN protection, means that no additional earth rod is required, and simple connections make the installation process fast and efficient. WiFi & Bluetooth Connectivity allow for remote authorisation, charge scheduling and diagnostics via mobile app and online portal.

Features.

- Single Phase, 32A 7kW Charger
- 5m Cable with Type 2 Connector
- App Controlled Access & Scheduling
- Wall or Stand Mounted
- Compact Design – 340 x 200 x 130mm
- OCPP 1.6 JSON

Protection.

- Integral Welding Detection
- Integral PEN Protection
- Robust Weatherproof Casing IP55/IK10

Connectivity.

- WiFi (IEEE 802.11bgn) @2.4 Ghz
- Bluetooth 4.2

Tethered Untethered





Office for Product Safety & Standards
EVSCP Compliant

Office for Zero Emission Vehicles

APPROVED

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 (BS7671:722.411.4.1 Ident ii & v)
Supply Connection	L, N + PE

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

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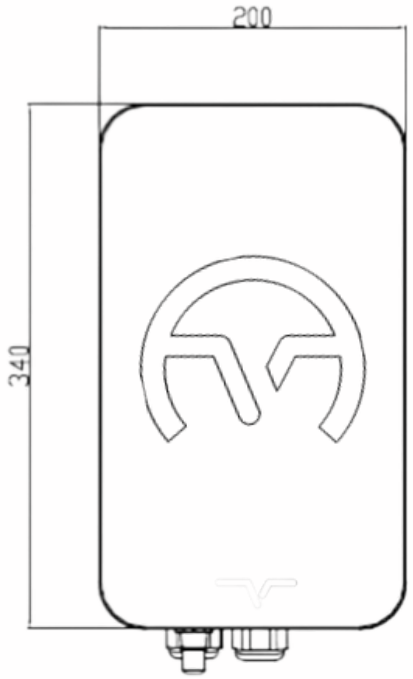
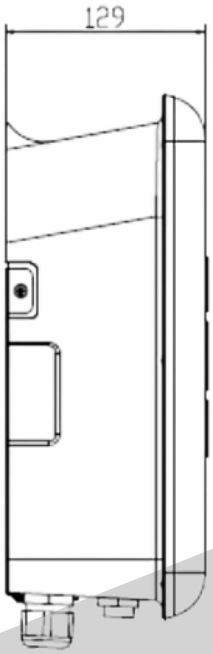
Specifications.

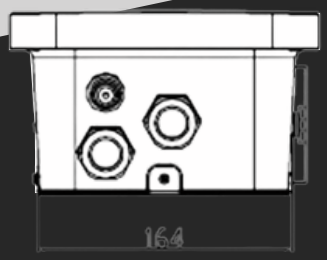
Mechanical Features	
Connector	Type 2 IEC62196
Mounting	Wall or Pedestal
Dimension (mm)	200(L) 340(H) 136(D)
Weight	4kg approx. (excl. charging cable) 5kg w/ cable
IP Class/IK Class	IP55 / IK10



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



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