

EBM
ELECTRICAL SERVICES
LIMITED

Contractor Submission			
Issued By:	Brad Free	Date:	20.05.2022
Issued To:	Tisha-Anne Mclean	Company:	Winvic

System Overview

Design Team Review		
Received By:		Date:
Comments:		
Approved:		
Status:		Note: <i>Status A – Approved</i>
Issued By:		<i>Status B – Approved with Comments</i>
Issued To:		<i>Status C – Not Approved</i>
Company:		Date:

Contractor Receipt			
Received By:		Date:	
Action:			

BASICCHARGE:EV

EV OPENCHARGE

Type 2, Mode 3 Charging Socket(s)
(GPRS/Ethernet Communication)
3.6kW or 7.2kW

ROLEC
EV Charging

MANUFACTURED IN THE UK



COMPLIANT



The BASICCHARGE:EV OPENCHARGE pedestal replicates Rolec's world-leading Classic utility pedestal, which provides a simple and effortless EV charging experience for all users.

This affordable OCPP compliant pedestal can offer a simple pay-to-charge solution via the EV driver's smartphone and/or RFID card/fob authorisation through any chosen OCPP back office management system.

Available in either 1way or 2way versions, providing Mode 3 fast charging in 3.6kW or 7.2kW speeds, this unit features a built in GPRS antenna and Ethernet connection.



Unit shown: BASICCHARGE:EV
EV OPENCHARGE
2way Socket (Type 2) Charging Pedestal

PRODUCT FEATURES

- Mode 3 (IEC 61851-1) fast charging
- Available in 1way / 2way & 3.6kW (16A) / 7.2kW (32A) versions
- Type 2 (IEC 62196) charging socket(s) c/w security hatchlock(s)
- OCPP 1.6 compliant (Can integrate with any back office)
- Remote firmware updates
- Built-in RFID reader
- Photocell controlled LED amenity lighting head
- Surface or roof mountable
- Built-in AC overload protection (MCB)
- Built-in AC & DC fault protection (RCD)
- Built-in LED charging status indicator socket halo(s)
- Built-in class 1 MID compliant kWh meter(s)
- EV driver Pay-to-Charge smartphone integration
- OLEV Grant Fundable under the Workplace Charging Scheme
- Easy to install & maintain
- IP rated, UV stabilised & corrosion resistant

Chargepoint Management

Unless otherwise stated at time of order, EV OPENCHARGE units will be automatically programmed to operate via the Rolec VENDELECTRIC back office management system.



See the VENDELECTRIC sheet Overview for details



OCPP 1.6
Compliant



Grant
Fundable



GPRS / Ethernet
Connectivity



Branding & Colour
Options Available



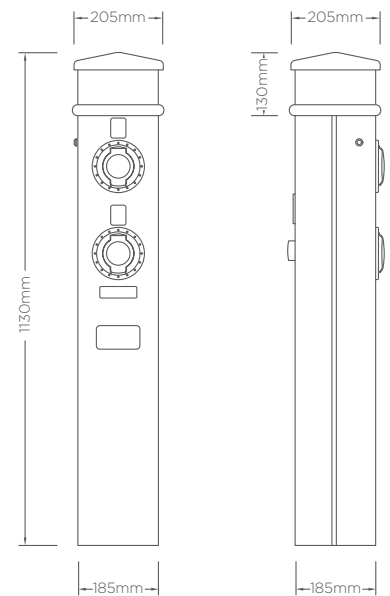
LED Amenity
Lighting



IP Rated &
UV Stabilised

SPECIFICATIONS

Product Code	OCPP0210	OCPP0211	OCPP0220	OCPP0221
Charging Socket(s)	1x Type 2 (IEC 62196) 		2x Type 2 (IEC 62196) 	
Rated Output	3.6kW	7.2kW	3.6kW	7.2kW
Rated Current	16A	32A	16A	32A
Charge Protocol	Mode 3			
Input Voltage	230V AC/50Hz (Single Phase)			
AC Overload Protection	1x C20A MCB	1x C40A MCB	2x C20A MCBs	2x C40A MCBs
AC & DC Fault Protection	1x Type B RCD		2x Type B RCDs	
Cable Terminals	3x 50mm			
Communications	GPRS (Recommended signal strength of 14 CSQ or above) RJ45 ethernet connection			
Standby Consumption	Approx 0.3kW per day			
Certifications & Compliances	EV Charging Compliance – EN 61851-1:2011, BS EN 62196-1:2014, BS EN 62196-2:2017			
	Wiring Regulations – BS 7671			
	EMC Compliance – EN 301 489-01 V2.2.0, EN 301 489-03 V2.1.1, EN 301 489-52 V1.1.0, EN 50470-1:2006 (1x Skt) or EN 55032:2012 (2x Sks)			
	Spectrum/Telecom – EN 301 511 V9.0.2, EN 300 330 v2.1.1			
	RED – 2014/53/EU – EN 62311:2008			
	Safety Compliance (LVD) – 2014/35/EU			
	Environmental Protection – Enclosure IP65, Socket IP54 (BS EN 60529:1992+A2:2013)			
Dimensions	205mm x 1130mm x 205mm (W x H x D)			
Pedestal Material	High impact resistant aluminium composite outer shell			
Internal Chassis	Heavy duty, hot dipped galvanised steel			
Operating Temperature	-30°C to +50°C			
Standard Body Colour	Black (Other colours available upon request)			



EV OPENCHARGE

- Smart charging control via mobile phone and/or RFID
- Can integrate with any chosen OCPP back office management system
- Open Charge Point Protocol 1.6 (OCPP 1.6)
- On board GPRS modem with antenna
- Ethernet connection

OPTIONS & ACCESSORIES

- RFID card/fobs
- Load Manager system (electrical distribution management)
- Available with powder coated aluminium or stainless steel outer shell
- Corporate branding (colours, logo badge, etc.)
- Galvanised steel ground mounting base
- Protection barriers & charge point signage
- EV charging cables (Type 1 to Type 2 or Type 2 to Type 2)



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EVBCOCD-V02-R2 BasicCharge EV OpenCharge - Data Sheet

CHARGING PLATFORM OVERVIEW



EV driver operation via
smartphone or RFID

ENABLING YOU TO **MANAGE & OPERATE** YOUR OWN CHARGING NETWORK

VENDELECTRIC is a unique EV charging platform providing businesses, organisations and similar with the ability to deploy and self manage their very own EV charging network without having to incur any of the significant costs associated with developing a back-office, phone app and secure payment/management platform.

- ✓ **NO** Driver Annual Membership Fees
- ✓ **NO** Driver Monthly Subscription Fees
- ✓ **NO** Driver Connection Fees

VENDELECTRIC PAY-TO-CHARGE
PAYMENT PARTNERS/ASSOCIATES

Opayo

VISA



*“VENDELECTRIC provides the operator with
complete chargepoint network visibility,
management and monitoring”*

A SELECTION OF VENDELECTRIC FEATURES



Smart Charging
Network



Mobile App / RFID
Operated Charging



Operator
Management



Optional Revenue
Stream



Analytical
Feedback



Customisable
EV Driver Tariffs

BENEFITS OF VENDELECTRIC...

...FOR YOUR BUSINESS/ORGANISATION

✓ You're In Complete Control

Unlimited use of an industry leading back-office platform enabling you to have full management and control of your entire EV charging network.

✓ Future-proof & Scalable Solution

Manage single or multiple charge points with the option to accommodate private network charging (staff members, fleet drivers etc), ensuring your chargepoints are secure from unauthorised usage. Add more EV charging points to your infrastructure as and when demand increases.

✓ Mapped Network

Complete mapped overview of your network as well as the ability to group your chargepoints at your premises/sites using the platform's interface.

✓ Customisable Tariffs

Operate your charging points via pay-to-charge, free-to-charge or BIK options. For example, you may wish to offer free charging to employees, whilst providing visitors with a pay-to-charge service.

✓ Generate Revenue

Immediate revenue stream by simply setting your own EV charging tariffs, with the ability to change as and when you wish to suit your business requirements. The revenue summary page provides you with a clear itemised overview of your generated revenue.

✓ Smart Reporting & Analytical Feedback

Full visibility of real-time chargepoint activity, monitoring and energy usage all at the click of a button, helping you understand charging behaviours and where further infrastructure is required. You can easily access and export all historic data and reports.

✓ Fleet Management Solutions

Ability to assign RFID card/fobs to drivers or vehicles which can then be used to authorise charging sessions. There is also the option to restrict chargepoints to specific VRMs (Vehicle Registration Marks), making the ideal solution for fleets.

✓ Automatic Fault Notifications

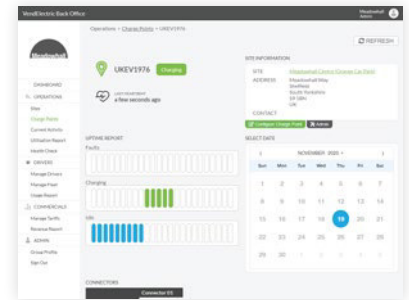
Fault notification feature allows the VENDELECTRIC team to provide support when required.

✓ Over The Air Updates

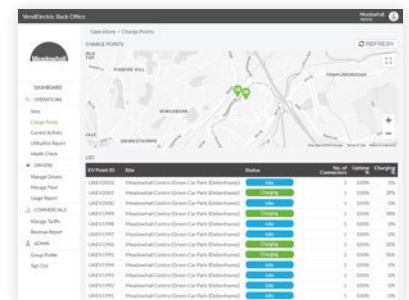
VENDELECTRIC's OCPP integration enables remote over the air firmware updates ensuring you're always on the latest version.

✓ Optional Electrical Load Management

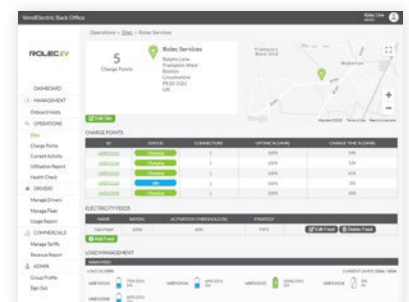
Ideal for locations that require multiple EV charging points where the collective load may be greater than electricity supply. The optional load management feature ensures all charging facilities are available for use.



Chargepoint Summary Screen



Chargepoint Network Screen



Site and Load Management Screen



BENEFITS OF VENDELECTRIC...

...FOR THE EV DRIVER

✓ Easy To Operate

The EV driver plugs in to the chargepoint and activates their charging session by simply scanning the chargepoint's QR code using their smartphone's camera. Alternatively, they can enter the socket ID number via the VENDELECTRIC app or present their chargepoint host issued/personal RFID cards/fobs (eg. vehicle/charging network/security access).

✓ No Upfront Costs

There are no hidden fees, unnecessary charging network membership, subscription or connection fees.

✓ Secure Payment Platform

For chargepoints that are set to operate on a pay-to-charge tariff, the user pays for the charge advertised on the app using secure Visa, MasterCard and JCB payment methods via Opayo.

Opayo

VISA



THE VENDELECTRIC APP FEATURES



Locate & Navigate

Easy to find and navigate to a chosen charging point



My Favourites

Save your favourite charging locations for future use



Charge Sessions

View all of your current and past charging session information



Statistics & Analytics

Understand your EV charging activity/behaviour



Exportable Data

Ideal for submitting your benefit-in-kind claims



Live Notifications

Receive charging session notifications and alerts



Virtual Wallet

Top-Up a virtual wallet which makes activating a charge much quicker



Multi Vehicle Access

Multiple EVs can be added to a single registered account

DOWNLOAD THE APP



3 YEAR DATA MANAGEMENT PRICING & PLANS

	Essential	Premium
OZEV GRANT ELIGIBLE:		
WCS (Workplace Charging Scheme)	✓*	✓
USER ACCESS:		
Plug & Play Charging	✓	✓
Mobile Phone App		✓
RFID Card/Fob		✓
HOST MANAGEMENT:		
Unlimited Back-Office Platform Access		✓
Chargepoint Management Dashboard		✓
Visibility Of Your Entire Chargepoint Network		✓
Real-Time, Historical & Analytical Feedback		✓
Customisable Tariffs		✓
Optional Revenue Stream		✓
Private, Public & Fleet Charging Options		✓
Exportable Usage, Revenue & BIK (Benefit In Kind) Data		✓
Automatic Maintenance Response Notifications		✓
Electrical Load Management (Optional)		✓

* PLEASE NOTE: The VendElectric Essential management plan provides the host with an automated quarterly chargepoint consumption report as required in order to meet eligibility for the OZEV Workplace Charging Scheme Grant (WCS).

** Subject to additional costs.

£50
per 3 Years
(each socket)

£135
per 3 Years
(each socket)



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ADDITIONAL COSTS

CONNECTIVITY

To connect a chargepoint(s) to the VENDELECTRIC network via GPRS a SIM card is required. The below costs cover the SIM card connection for a 36-month period:

- 1way OCPP unit - £45 per SIM
- 2way OCPP unit - £65 per SIM

Should you wish to have the units solely Ethernet connected, the SIM card costs above will not apply.

COMMISSIONING

A remote commissioning fee of £30 per unit is applicable on the premium data management plan.

Commissioning is to be carried out by the client's appointed installer with support from a VendElectric back-office representative via telephone, if required.

DC chargepoints may require on-site commissioning**

OPTIONAL LOAD MANAGEMENT

Additional costs apply which are determined by the installation / site's specific requirements.

PRICING EXAMPLE

3 YEAR ESSENTIAL PLAN				
UNIT TYPE	DESCRIPTION	QTY	PRICE (£)	TOTAL (£)
1way Charging Unit	Essential Plan Data Management Fees (per socket)	1	50.00	50.00
	1way Unit GPRS SIM	1	45.00	45.00
2way Charging Unit	Essential Plan Data Management Fees (per socket)	2	50.00	100.00
	2way Unit GPRS SIM	1	65.00	65.00

3 YEAR PREMIUM PLAN				
UNIT TYPE	DESCRIPTION	QTY	PRICE (£)	TOTAL (£)
1way Charging Unit	Premium Plan Data Management Fees (per socket)	1	135.00	135.00
	1way Unit GPRS SIM	1	45.00	45.00
	Remote Commissioning (per unit)	1	30.00	30.00
2way Charging Unit	Premium Plan Data Management Fees (per socket)	2	135.00	270.00
	2way Unit GPRS SIM	1	65.00	65.00
	Remote Commissioning (per unit)	1	30.00	30.00



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EVVESO-V01-R2 VendElectric - System Overview Sheet

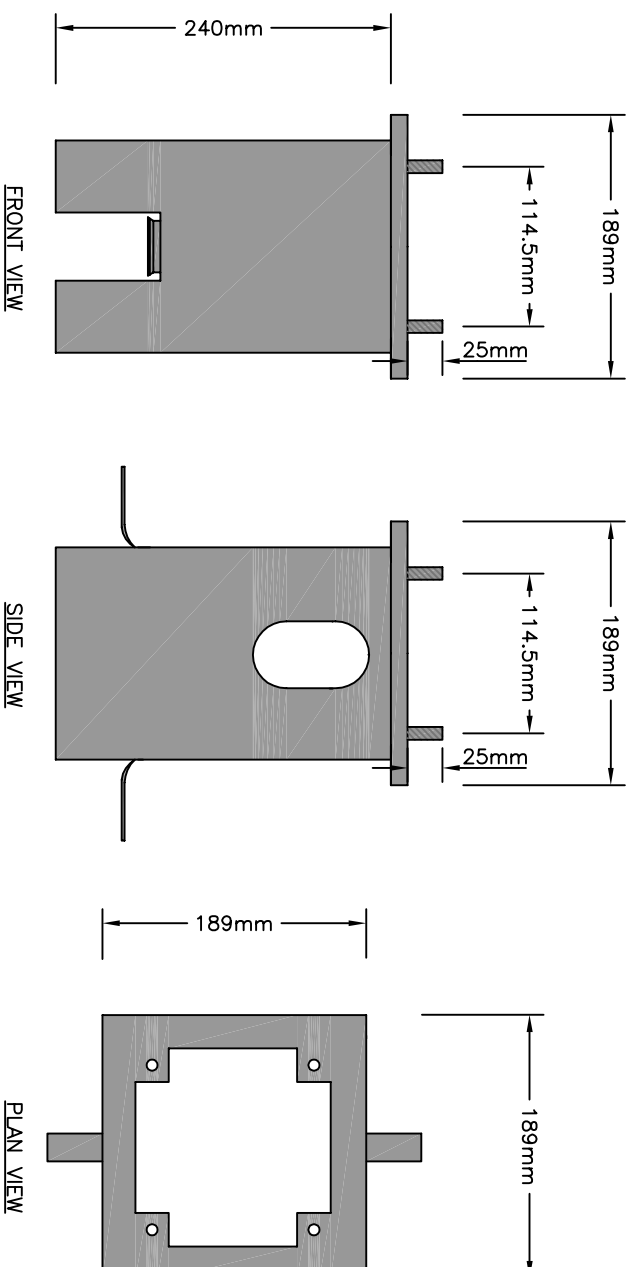


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COMPONENT LIST:

- 1x CLASSIC STANDARD GALVANISED STEEL GROUND MOUNTING BASE



CLASSIC STANDARD GALVANISED MOUNTING BASE

CODE: G MCP0010 BARCODE: 5055522411369

DETAILS:	REV:	DATE:

PROJECT:	-
CLIENT:	-
TITLE:	CLASSIC STANDARD GALVANISED BASE

DWG NO:		GMCPO010	
DRAWN BY:	IR	DATE:	09/01/2011
SCALE:	NTS	SIZE:	A4



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EVU-3-63-ISL

Three-phase connection unit with 3 x 2 Pole 63A isolators

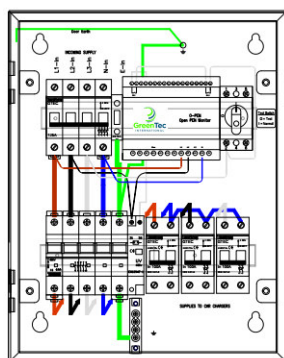
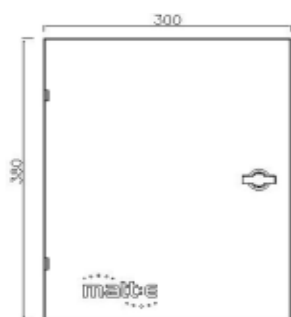
The matt:e EVU connection centres provide a simple to install dedicated EV connection centre, with built in O-PEN® technology, that allows for the connection of EV charge points to the PME earthing facility without the use of earth electrodes.

Helping to facilitate compliance with BS:7671. 2018 Amendment 1, 2020 Regulation 722.411.4.1.(iii).



Product Features and benefits

- Built in O-PEN® technology
- NO EARTH ELECTRODES REQUIRED
- Helps reduce disruptive and costly groundworks
- Removes the risk of striking buried services
- Simple wire in wire out connection
- Phase loss protection
- 3 x 63A DP Isolators
- Mild steel IP4X enclosure
- Standard 1 Year parts warranty



Input Volts	400V 50Hz
Max Load	63 amps per phase
Cable Entry Facility	Top and bottom
Terminal Capacity	25.0mm2
Dimensions (H x W x D)	380mm x 300mm x 120mm
Weight	Approximately 7kG
Enclosure	Mild Steel Powder Coated
Ingress Protection	IP4X
Warranty	1 Year

...Simplifying EV connection