

ST GABRIELS HALL,

TECHNICAL SUBMITTAL

6152_1586-PRO-ZZ-XX-TEC-M-6203

EV CHARGING EQUIPMENT

REVISION: P01

March 2024

ProMEP Ltd
Queensberry House
106 Queens Road
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East Sussex
BN1 3XF

To:	Project Team	**From:**	Ben Tasker
Company:	McLaren Construction Group PLC	**Company:**	ProMEP Ltd
Project Name:	St Gabriels Hall, 1 Oxford Place, Manchester		
Technical Submittal Reference:	6152_1586-PRO-ZZ-XX-TEC-M-6203	**Revision:**	P01
Technical Submittal Title:	EV Charging Equipment		
Approval Required:	15/03/2024	**Approval Received:**	

General Description:

Proposed EV Charging Equipment – 1no. 7kW unit

Specification:

The following is the relevant project specification clauses that our proposals must comply with; 22032-CHD-ZZ-XX-SP-N-0001 - P01 - MEP specification with VE where applicable – ProMEP are on a D&B contract therefore some changes from the specification are to be expected.

Drawings:

The following is the relevant project drawings that our proposals must comply with; NA - See ProMEP E6200 range drawings

Schedules:

The following confirms the performance requirements of the specification compared with the performance of the proposed equipment for this project.

Specification Criteria	Offered Performance	Complaint Y/N

Deviations:

The following confirms the performance requirements of the specification compared with the performance of the proposed equipment for this project.

Item	Date	Author	Reason

Manufacturers Information:

Please see attached manufacturers literature.

Installation Method:

The following provides any specific and relevant installation information including clarity on any special manufacturer's information, attendances, access requirements or safety risks applicable for this project: See ProMEP RAMS

Reviewed by:	Submittal Approval Status			Signed	Date:
	A	B	C		

Status (A: Approved, B: Continue with some comment, C: Rejected)

Easee One

Built to comply with UK regulations, the Easee One comes with both integrated type B RCD protection and open PEN conductor protection.



Why choose Easee One?

Forward-looking home charging



Benefits

- Integrated open PEN conductor protection, i.e., no need for earth rod
- Reduced cost and time to install
- Fully dynamic charging power 1.4–7.4 kW
- Load balancing of up to 3 units per fuse by integrated wireless communication
- Automatic queuing system
- Offline proof load balancing
- Integrated eSIM in each box, lifetime free subscription
- Possibility of WiFi connection
- Permanent locking of the Type 2 cable
- Integrated earth fault protection (RCD)
- Integrated RFID reader (NFC / ISO 14443 and MIFARE Classic®)
- Energy measurement (+/- 2 %), for reading charge consumption
- The box is 69 % smaller than other solutions and weighs only 1.5 kg
- 3 year warranty
- Universal, fits all types of electric cars and mains
- Full control with the Easee app or local WiFi interface, and open API
- Tethered or untethered, at the click of a button
- Compliant with The Electric Vehicles (Smart Charge Points) Regulations 2021

Why choose Easee One?

3x

Optimized charging effect

You can have up to 3 Charging Robots on one fuse. All connected cars can be charged at the same time, and the available power is distributed automatically and dynamically between the vehicles. The total load will thus never exceed the set limit for the fuse.

eSIM

Internet access

All our Charging Robots are connected to the internet through mobile network*. If you buy now you get free mobile internet access throughout the lifetime of the product. In order to get software updates and increased redundancy, we recommend installing a local WiFi network, if there is no cellular coverage. The local WiFi network must be connected to the Internet.
*Assuming cellular coverage is available.

69%

Small

The Charging Robot is 69 % smaller and lighter than other electric chargers, with similar functionality. It weighs only 1.5 kg! This means that we save the environment at least 4 kg of copper and plastic per produced charger.

24/7

Always updated

The Charging Robot is updated with new features continuously. This way, you know that you have purchased a safe and future-proof product.

5x

A colourful choice

Available in Black as standard, we have 4 other front covers available to purchase: White, Anthracite, Red and Blue

3yr

Warranty

We want you as a customer to have confidence that you have bought lasting quality. A product from Easee comes with a 3 year* warranty.
*Some countries may have extended warranty.

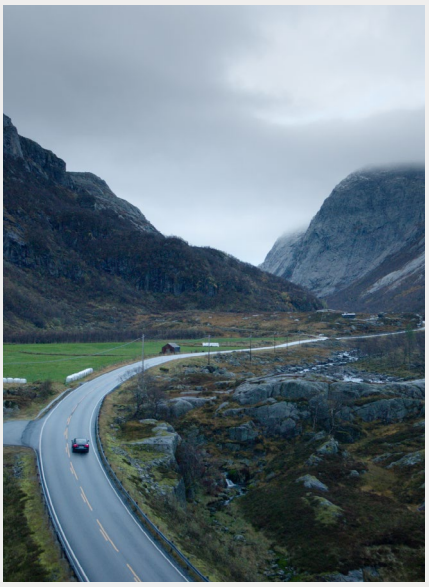
Why choose Easee One?

Made in Norway
- for harsh weather conditions

We develop and manufacture our products in Norway. Our products are developed for being able to withstand harsh environments. Not only is it tough, it is also small! Our Charging Robot is 69 % smaller than other EV-chargers. It only weights 1.5 kg. We have strived to contribute to a sustainable future and are saving the enviroment for 4 kg of copper and plastics per produced charger.

The charger thrives just as well on the outside of a house as inside a garage. Its components are of high quality and is composed in a very special way. It is IP54 certified.

We want you as a customer to have confidence that you have bought lasting quality. One product from Easee comes with a 3 year warranty.



Feel safe

We've added 3 extra levels of security, so that we can sleep well at night, knowing that you can do it too. Safety is an important part of the design.

With an Easee Charging Robot you can be assured that charging is done safely. The Charging Robot is designed to the latest standards. In addition, there is built-in electronic earth fault protection that ensures detection of DC and ground faults.

The Charging Robot is also equipped with temperature sensors and protection to prevent overheating. You also don't have to worry about crooks, the charging cable can be permanently locked in the box via the app or the local WiFi interface.



Why choose Easee One?

Easy when you get two electric cars

We have made it easy and affordable to invest in modern and forward-looking charging infrastructure. With “Easee Ready” docking station you get a completely EV ready charge point at low cost. By pre-installing an Easee One charge point, it is possible upon demand to subsequently deploy our innovative “Plug & Play” technology at no additional installation cost.

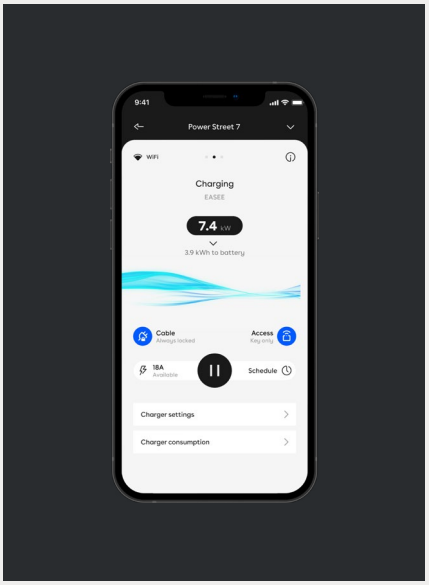
The Charging Robot acts as an intelligent junction box and it supports the expansion of multiple charging stations on the same cable.



Easee App

With the Easee app it is possible to control and plan when your car is charging. You can see live values for the current charge session and get an overview of your consumption. If you want to avoid finding the charging cable every time you charge the car, you can easily lock the cable permanently in the Charging Robot through the app.

You get full control over who can charge and when they can charge. We update the app periodically to make your Charging Robot even smarter. Additionally, with the Easee API further integrations and extended possibilities are available.



Specifications

Measurement
in mm



Technical

General

Dimension (mm): H: 256 x W: 193 x D: 106
Wall mounting (mm): c/c H: 160 x W: 125
Operating temperature: -30 °C to +50 °C
Weight: 1.5 kg

Charging

Charging power: 1.4–7.4 kW (6 – 32 A)
Number of phases: 1
Connection point: Type-2 socket (IEC 62196-2)
Voltage: 230 V AC – single phase (±10 %)
Mains frequency: 50/60 Hz
Advanced load distribution
Up to 3 Charging Robots on the same circuit
Accuracy of built-in energy meter (±2 %)

Connectivity

Built-in eSIM (LTE Cat M1/ 2G /GPRS)
WiFi 2.4 GHz b/g/n connection
Easee Link RF™
Control charging with the Easee app
RFID/NFC reader
OCPP 1.6 via our API
Open API

Sensors and indicators

Light strip showing the status of the charger
Touch button for manual adjustment
Temperature sensors in all main contacts

Colours

Black*

*Compatible with other Easee front covers in White, Anthracite, Red or Blue.

Safety

Protection

Integrated overload protection according to EN IEC 61851-1:2019
Built-in RCD for ground fault protection (30 mA AC/ 6 mA DC) according to EN 61008-1 and IEC 62955
Integrated broken PEN lead protection according to BS 7671:2018/A1:2020
Degree of protection: IP54 (the backplate is IP22 without cover)
Impact resistance: IK10
Fire class: UL94
Insulation class: II
Over voltage category III

Theft Protection

Electronics can be deactivated and tracked in case of theft (contact support if your device has been stolen).
The electronics can be permanently locked using a padlock (not included).
The charging cable can be locked permanently in the charging station.

Complies with the following regulations

2014/53/EU (RED)
2011/65/EU (RoHS)
2014/30/EU (EMC)
2014/35/EU (LVD)
The Electric Vehicles (Smart Charge Points) Regulations 2021
See DoC for details at easee.support

Installation

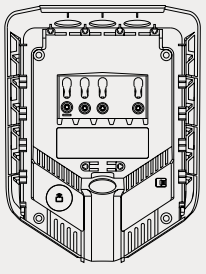
Power grids and fuses

Installation network: TT, TN-S, TN-C and TN-C-S
Installation circuit breaker: Max 40 A overload protection. The short-circuit current at the charging point (IkMax) must not exceed 10 kA. If required by the installation method, type-A earth fault protection can be used for the circuit.

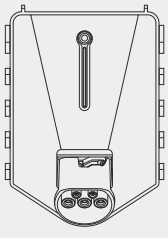
Integrated circuit in backplate

Wire cross-section: up to 16 mm^2 (single cable)/ up to 10 mm^2 (parallel connection)
Cable diameter: 8–22 mm
Terminal tightening: 5 Nm
Cable strip length: 12 mm

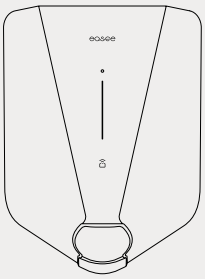
The product contains



Backplate



Chargeberry



Cover

Distribution UK

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Illustrations of the product and user interface are exemplary and may differ from the actual appearance.

February 2023 - Version 1.03
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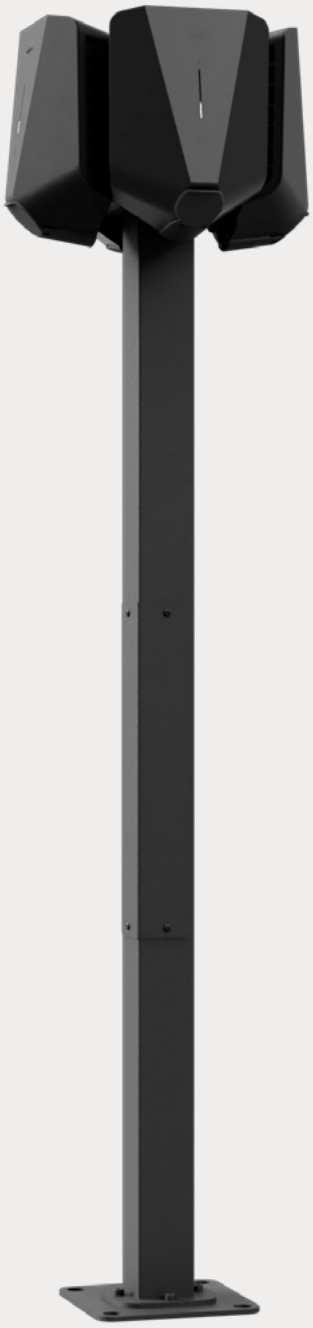
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4313 Sandnes, Norway
Org.nr: 920 292 046

Easee is distributed and maintained by a network of qualified partners and resellers. Find more information and your local partner at:

www.easee.com

Easee Base

Easee Base is a robust and weatherproof post that gives you more freedom to install the Charging Robot where it suits you best. It has four configurations that support single, dual, triple and quad charger setups, getting the maximum out of the installation. Thanks to its Power Rail connection box, it connects different posts in series, while converging all Charging Robots terminations in the same rail.



Why choose Easee Base?

Benefits

- Up to four Easee Charging Robots can be installed on the same post.
- Easy to connect each post in series with the supplied Power Rail connection box.
- Made of aluminium, with a strong scratch resistant powder coating, ensuring a long lasting durability.
- Integrated cable hooks that allow the charging cable to be permanently connected[1]
- Adapter plate that allows for a 45 degree installation angle.
- Designed in Norway

[1] Only available for 1-way and 2-way setups. The charging cable can be permanently locked in the Charging Robot.

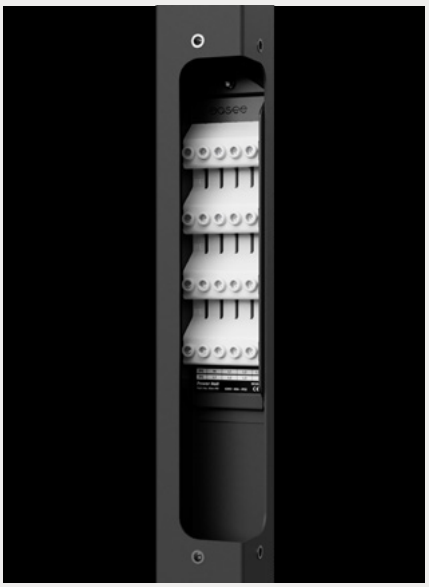


Power Rail

The Power Rail is a connection box that allows multiple charging posts to be connected in series.

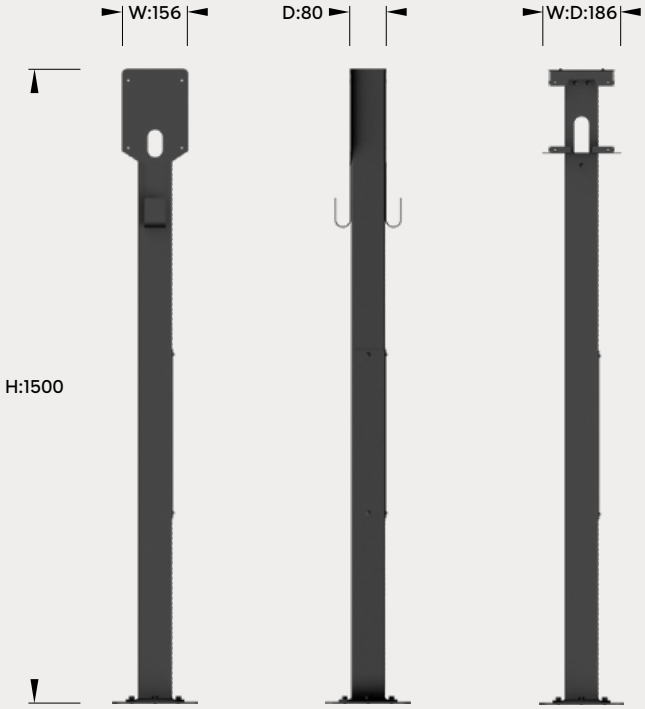
We recommend using the two upper terminal sets for the charger cables. For a single charger, only one set of terminals is used, for two chargers both sets of terminals are used and for three or four chargers two wires have to share a terminal.

The two lower sets of terminals are used for power in and out.



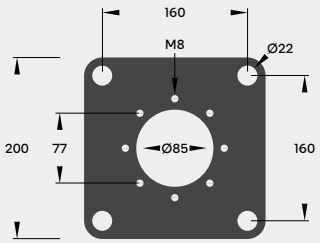
Specifications

Measurement
in mm

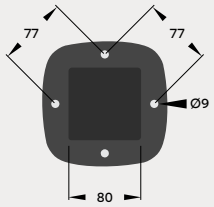


1-way / 2-way

3-way / 4-way



Adapter plate



Post base plate

Technical

General

Dimension (mm):
1-way / 2-way: H: 1500 x W: 156 x D: 80
3-way / 4-way: H: 1500 x W: 186 x D: 186
Weight: 6.1–7.7 kg
Material: Aluminium
Finish: Powder coating
Colour: Black
Degree of protection: IP44

Features

Adapter plate for c/c 160 mm^2 foundation
45 degree rotation intervals (using the adapter plate)
Screws and nuts included

Electrical connection

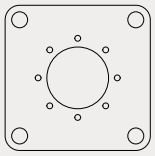
Connection via Power Rail
Possibility of serial connection of posts

Cable size

In and out of the post: Max 25 mm^2
Up to the Charging Robots : 6 mm^2

The post is delivered without the Easee Charging Robot.

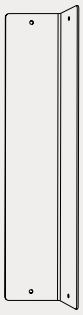
Common parts



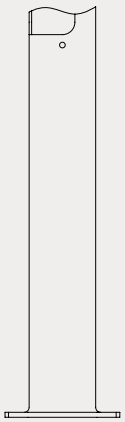
Adapter plate



Power Rail + ground connection plate



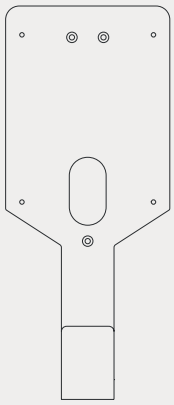
Side panel



Column

1-way
Part no. 90322

2-way
Part no. 90323



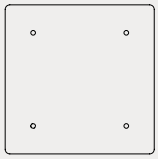
Mounting plate



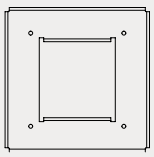
1-way blind cover

3-way
Part no. 90324

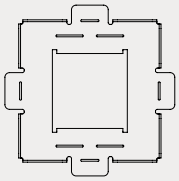
4-way
Part no. 90325



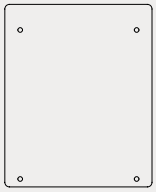
Top plate



Top frame



Bottom frame



3-way blind cover

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