



EV Charger Mode 3

Description

The deta.e electric vehicle charge points provide AC Mode 3 charging to vehicles and operates via a smart phone APP.

Features

- Charge point control, scheduling and energy usage monitoring via APP
- Control using RFID cards (2 cards supplied)
- Load management using CT clamp (supplied) or RS485 connection
- Commissioned using a mobile device which is Bluetooth or NFC enabled
- Download the ElecQ Partner APP to commission the charge point
- OCPP compatible for 3rd party management
- LED indicators
- Voice prompts (mute and volume control within the APP)
- PEN fault detection and isolation
- Connected product (as required by the Smart Charge Point Regs.) via ethernet or Wi-Fi connectivity
- Easy to install: the mounting base plate has mains wiring terminals and has rear, top and bottom drill out cable entry points; the charge point attaches to the base
- Suitable for wall or post mounting
- 7.4kW charging power (max. 32A)
- Firmware updates OTA, once the product is registered

Compliance

- IEC 61851-1:2019 EVSE mode 3
- IEC 62955
- EMC Regulations 2016
- ROHS Regulations 2012
- Radio Equipment Regulations 2017
- UK Electric Vehicles (Smart Charge Points) Regulations 2021
- Installation to be in accordance with BS7671

Communication

- Wi-Fi 2.4GHz and 5GHz network
- Ethernet RJ45
- Bluetooth 5.1 and NFC for commissioning via APP
- Remote management via cloud
- OCPP 1.6J / 2.0.1
- 4G Standard SIM port (EVC8006 only)

Range

7.4kW Mode 3 EV Charger (eDock2)	EVC8001
7.4kW Mode 3 EV Charger 4G (eDock2)	EVC8006

Technical Specification

Charging

Type 2 connector	✓
Cable lock via APP	✓
Multi-colour LED indicators	✓
Scheduled charging	✓ via APP

Electrical

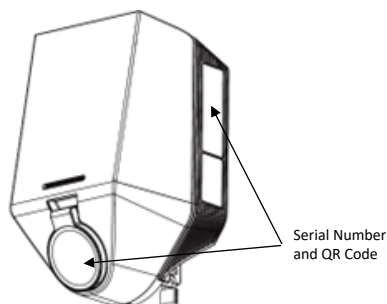
Supply Voltage	220V - 240V AC 50Hz single phase
Earthing Arrangements	TN-C-S or TT
Load Management	Maximum charging current can be set via the APP
Cable Size	10mm ² max.
Built-in RDC-DD	30mA (AC), 6mA (DC)
Built-in PEN fault detection	✓
Built-in metering	Yes, accuracy $\pm 2\%$
Surge protection:	level III lightning protection, 4000 V (recommended to fit Type 2 SPD in the consumer unit)
Isolation	Class II
CT Clamp	100A / 100mA, suitable for 25mm ² tails; with 5m cable, extendable to 50m
Power Supply to EV	Recommend circuit is protected by 40A 30mA Type A RCBO C Curve

Physical

Size (w x h x d)	283 x 190 x 152mm approx.
Weight	2.3kg approx.
Case colour	Black
Ingress protection	IP65 without plug inserted IP55 with plug inserted
Impact protection	IK10
Flammability rating	IEC 60695-1-10 UL94 5VB or V0

Commissioning

- The eDock2 must be commissioned to ensure correct operation by setting the parameters of the installation for that particular charge point to provide the maximum power available to charge an EV, and to ensure the circuits and DNO fuse are not overloaded.
- The installing/commissioning engineer must download the ElecQ Partner APP and create an account. The account application must be accepted before commissioning can take place (account applications only reviewed and accepted during normal working hours).
- A location site is created within the APP and the installation details must be entered including DNO fuse size, the Load Balancing arrangement and Maximum Charging current. During this process the Charge Point is added to the site
- When commissioning, the instruction manual with serial number and PIN code which are unique to a particular ChargePoint, is required.
- Multiple sites and charge Points can be commissioned using the Copy Site function with in the APP



Users

- Users can download the ElecQ APP to operate the Charge Point and create charging schedules.
- Users can also operate the Charge Point using the RFID cards supplied with it.
- Users will require the codes in the instruction manual to link the charge point with their APP.

Communal Installations

- The eDock2 can be used in communal installations fed from a landlords supply.
- An MID Energy Meter is required where the users are to be billed the energy used.
- An RS485 cable will be required between the Energy Meter and the charge point.
- The charge point can be managed by 3rd party operators and CPOs.

Charge Point Management

- The eDock2 is a connected product and can be monitored remotely via the Cloud (charge points identified by serial number)
- Remote diagnostics and fault codes is available via the cloud and allows firmware updates to be sent to a charge point

Serial Numbers

- Every Charge Point has a unique serial number, PIN code and QR code.
- The serial number and QR code are on the side of the mounting base and under the socket flap
- The serial number, PIN code and QR code are also in the instruction manual and is therefore unique to the Charge Point.
- The user will require the instruction manual to link to the Charge Point in their APP