



Smart. Safe. Secure.
EV Charging Solutions



deta-e.co.uk



Founded in 1958...

Deta Electrical is a market leading manufacturer and distributor of wiring, lighting, cable management and electrical installation accessories, with a reputation for unrivalled quality, reliability, service and value for money.

As the number one electrical brand of choice amongst new build housing developers, Deta's products are widely specified and installed across the private and social housing sectors, as well as high rise developments, student accommodation and care homes.

Deta Electrical is proud to hold ISO 9001 Quality Management and ISO 14001 Environmental Management certification.

Mission & Core Values

Deta's mission is to use its passion and expertise to provide best-in-class products that meet and exceed ever-changing customer needs.

- ▲ **Trusted** – a brand trusted by customers, Deta is synonymous with high product quality, extensive product knowledge and exceptional customer service. Robust quality control throughout the development and manufacturing stages are key to delivering quality products.
- ▲ **Progressive** – focused on continuous progression, Deta is committed to investment in innovation, product design and ease of installation. Digitalisation is at the heart of Deta's strategy, supporting stakeholder requirements and maximising its value chain.
- ▲ **Sustainable** – Deta is committed to protecting the environment for future generations, to building an inclusive community and to ensuring it acts in the best interests of society.

Think electrical, think... deta▲

DETA | VIMARK | TTE | BRACKENHEATH
BRITICENT | CHANNEL | DETA.E | TIMEGUARD



PRODUCT KNOWLEDGE

Knowledge enables the development of products that meet customer needs



SERVICE

Dedicated, specialist teams offer a streamlined experience



PRODUCT QUALITY

Innovation, design & ease of installation are intrinsic to product development

Residential & Commercial EV Charge Points

Deta.e offers smart, safe and secure EV charging solutions for residential (single dwelling and communal) and commercial (workplace and public) parking.

Quick to install and easy to use, Deta.e charge points provide users with a best in class charging experience.

A simple-to-use app provides users with a convenient solution for managing their charge point(s) either in situ or remotely from the palm of their hand.



Nominated for:
**Charge Point Manufacturer
of the Year 2023: EVIES and ECN**

eDock



eDock+



eVoomXL



Powered by **AUTEL®**

Deta.e charge points are powered by Autel, a long-established global automotive technology company with a pedigree in developing and bringing to market intelligent diagnostic, detection and analysis systems.

Charge rEVolution

According to official figures, electric cars have accounted for around **17%** of new battery electric vehicles (BEV) and plug-in hybrid electric vehicles (PHEV) at **8%** in 2024.

25%*

of new UK car sales in 2024 were BEV & PHEV.

The EV market continues to grow and is expected to accelerate over the next few years as the UK prepares itself for the 2035 ban on new petrol and diesel car sales.

EV charging solutions are now a 'must have' for every home and workplace.

*Source:

The Society of Motor Manufacturers and Traders (SMMT) – YTD, May 2024



Petrol & diesel car sales will be banned from 2035



1 in 3 used cars will be electric by 2030

Why Now?

New government legislation requires new build dwellings to be installed with electric vehicle charge points.

Building Regulations Part S requires new builds and existing homes that are undergoing large renovations (10+ dwellings) to have electric vehicle charging facilities installed.

There are a number of grants available from the Office of Zero Emission Vehicles (OZEV) to public and private sector organisations and bodies that support the cost of EV charge points, infrastructure and installation.

Contact us or search for OZEV on gov.uk for further details.



1 electric car on the road
can save an average of

1.5 million
grams of CO₂



By 2040, the number of hybrid
or electric cars could reach

25.5
million

Detail EV charge points can draw energy
from domestic solar panels and/or charge
storage systems where installed, reducing
CO₂ emissions and saving energy costs.



Compatible with PV
Solar generation and
battery storage systems

Charging at Home

eDock & eDock+

The eDock and eDock+ are compact and smart, suitable for charging all electric and hybrid plug-in vehicles in residential single dwellings.

Designed for quick installation and ease-of-use, these EV charge point offer a reliable, safe and secure EV charging solution for the whole family. With an array of smart features, they provide up to a 7.4kW power rating, which is faster and safer than a 3-pin plug.

Flexible and compact, they can be mounted directly onto a wall or on a post in remote car parking spaces.

Operated via the app or RFID card, it is easy to switch the charge point on and off and restrict access to approved users only.

Compliant with Electric Vehicles (Smart Charge Points) Regulations 2021

The eDock and eDock+ are 'smart' charge points, enabling users to send and receive information as well as respond to signals by increasing/decreasing the rate and/or timings for charging to take advantage of demand side response services. See installation instructions on page 12.



Easy Installation

Simple to mount on a wall or post. Supplied with an easy fix universal mounting base



Smart

Software updates available via Wi-Fi



Safe

Built-in safety features to ensure the charging environment is safe and secure



PEN Protection

Provides loss of earth protection, eliminating the time, cost and disruption for an earth rod to be installed



PV Solar

Compatible with PV Solar generation and battery storage systems



Reliable

Supported by a full parts and labour warranty



eDock

- ▲ 7.4kW
- ▲ Compact Design
- ▲ Integrated 30mA AC & 6mA DC Earth Fault Protection
- ▲ Compatible with Solar & Battery Storage
- ▲ Wi-Fi, Ethernet, Bluetooth & RS485 Communication
- ▲ Static Load Management Possible (via Autel App)
- ▲ OCPP 1.6J Compliant for Remote Management & Control
- ▲ Cyber Security / Anti Tamper Proof
- ▲ Cable Lock Function (via Autel App)
- ▲ IP54 Rated & IK10 Impact Rating
- ▲ 3-Year Parts & Labour Warranty
(When Registered Within 90 Days)

eDock+ (with RFID)

- ▲ 7.4kW
- ▲ Compact Design
- ▲ RFID Enabled (Supplied With 2 Cards)
- ▲ Integrated 30mA AC & 6mA DC Earth Fault Protection
- ▲ Compatible with Solar & Battery Storage
- ▲ Wi-Fi, Ethernet, Bluetooth & RS485 Communication
- ▲ Auto Load Balancing Included
- ▲ OCPP 1.6J Compliant for Remote Management & Control
- ▲ Cyber Security / Anti Tamper Proof
- ▲ Cable Lock Function (via Autel App)
- ▲ IP54 Rated & IK10 Impact Rating
- ▲ 3-Year Parts & Labour Warranty
(When Registered Within 90 Days)



Communal Charging

eVoomXL & eVoomXT

The eVoomXL and eVoomXT are multi-user smart charge point designed for communal residential and commercial EV charging (workplace, retail parks).

Optional cloud based software allows communal parking areas to be managed by a Charge Point Operator (CPO), who is then in control of operating and maintaining the EV charging facility and billing the users.

The eVoomXL and eVoomXT are packed with triple protection technology for safe charging. Load management and phase balancing options are available so the maximum number of vehicles can be charged simultaneously. Available to suit single phase (7.4kW) or three phase (11kW/22kW) options, users can access the smart charge point via the app (free to download) or RFID card.

The CPO can access the Autel cloud based management solution to oversee status and provide billing as required (this is a subscription based service). Incorporating the OCPP 1.6J operating system allows third party apps and management solutions such as Clenergy, Monta and Fuse to be used where preferred.



Powerful

The eVoomXL & eVoomXT can support up to 7.4KW 32A on single phase or 22KW 32A on three phase and has an untethered Type 2 connector



Smart

Software updates available via Wi-Fi



Versatile

Suitable for inside or outside mounting



PEN Protection

Provides loss of earth protection, eliminating the time, cost and disruption for an earth rod to be installed



PV Solar

Compatible with PV Solar generation and battery storage systems



Reliable

Supported by a full 3 or 5 year parts and labour warranty



eVoomXL & eVoomXT

- ▲ 7.4kW Single Phase / 11kW/22kW Three Phase
- ▲ Integrated 30mA AC & 6mA DC Earth Fault Protection
- ▲ Built in Open PEN Fault Protection
- ▲ RFID Enabled (Supplied With 2 Cards)
- ▲ LCD Screen Allows Operation via the Screen
- ▲ Customisation of LCD Screen Display for Images/Adverts
- ▲ 4G, Wi-Fi, Ethernet and Bluetooth Connectivity
- ▲ Over-the-Air Firmware Updates
- ▲ Scheduled & Energy Tariff Charging Options
- ▲ Safe Electrical Load Management
- ▲ OCPP 1.6J Compliant for Remote Management & Control
- ▲ Parts & Labour Warranty –
eVoomXL: 3-Year / eVoomXT: 5-Year



Major EV Car Brand Compatibility



*It is advised to confirm compatibility with individual models prior to purchase.

Case Study: Chalkhill Apartments

The Chalkhill Apartments block is a rental development in Wembley that in recent months has undergone extensive refurbishment. In addition to the interiors being modernised, the landlord sought to provide his tenants with Electric Vehicle (EV) charge points.

The landlord, who was aware of the issues around how much EV's could potentially draw when charging, knew there was limited power supply to the apartment block that would have to be considered throughout the project.

When the apartment block was developed several years ago, power cables were routed from the mains intake to the apartments' dedicated car parking spaces at the front and rear of the building. While this would have been sufficient at the time when non-smart charge points were permitted, with the introduction of The Electric Vehicles (Smart Charge Points) Regulations 2021 (which came into force in 2022), this cabling is now insufficient.

In order to simplify it for homeowners, it was considered more suitable for the electric vehicles to be powered from the individual apartments as this would prevent the need for a having to separately bill homeowners for the electricity used.

Alternatively, using a management company to manage the charge points was also reviewed. The take up by residents, however, was unknown as only some residents had PHEV. Therefore a management company's costs would be an additional burden with no or very little gain.

In response, Deta came up with the solution – the installation of the eVoom 7.4kW single phase charge points, which are OZEV and SEAI approved. These charge points were fed from supply to each apartment, just after the meter, which was in the ground floor riser cupboard. As the apartments were balanced across the phases, the charge points were too.



With the landlord being concerned about not overloading the supply to the block of apartments, should the charge points be heavily used, electrical load management was required. Three energy meters were added, one per phase. The charge points were configured during commissioning with all on one phase placed into one group, creating three groups. An RS-485 cable was routed through existing ducting from these energy meters to the Primary charge point in the group, as was CAT5e data. Additionally, separate Wi-Fi networks were set up, one for each group connecting to the secondary chargers.

When the charge points were commissioned, the maximum power available per phase was set and the primary charge point ensured (through cloud management) that when EV's were being charged, the total power being drawn by the EV's and the apartments was not overloading the DNO fuses.

To ensure the charge points could easily be used by residents, each apartment was issued with two RFID cards, which were paired with their charge point to start and stop charging.

Furthermore, with the charge points being OZEV approved, the landlord was able to claim against the grant available, reducing his outlay.



Although we initially saw this project to be quite complex, we are pleased Deta could provide a solution that would achieve our objectives. We have been impressed at how these Deta.e charge points have been extremely easy to install and commission, as well as operate from a user perspective.



- Kroum Kakalov, Property Owner



Smart App Control

Complete with a multitude of features, the “Autel Charge” app provides users with the ability to track, manage and optimise EV charging.

The Autel Charge app, which is downloadable from deta-e.co.uk (or App Store/Google Play) allows users to carry out vehicle charging to suit their lifestyles. Charging can be scheduled remotely to power up vehicles at the times that offer lower energy prices, and the battery charge status can be tracked whilst charging.

Providing an excellent experience whether charging at home or on the road, the advantages of the app for home use include:

- ▲ Scanning the QR code on a home charge point to streamline the setup and configuration process
- ▲ Fast and convenient charging via the Autostart feature
- ▲ Schedule charging sessions during off-peak times to reduce electricity costs
- ▲ View real-time charging statistics and monthly

When on the road, the app includes the following features:

- ▲ Start and stop charging using your charge card or by scanning the QR code on the public charge point
- ▲ Displays the availability status of public charge point
- ▲ View site information
- ▲ Link your credit card to streamline the payment process using public charge points.



Scheduling

Organise timings, charges easily, and remotely



Notifications

Be informed when charging is complete



Charge Point Control

Complete control of your smart charge point

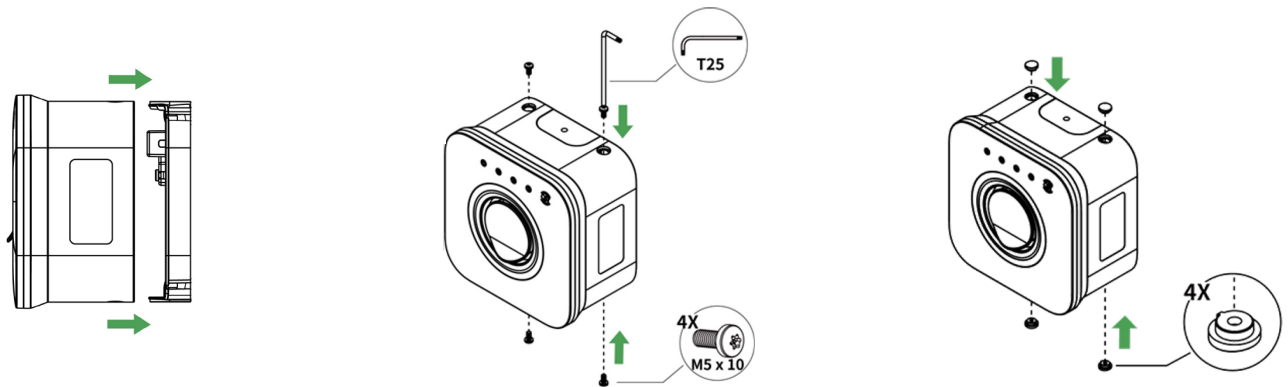


Simple, Straightforward Installation

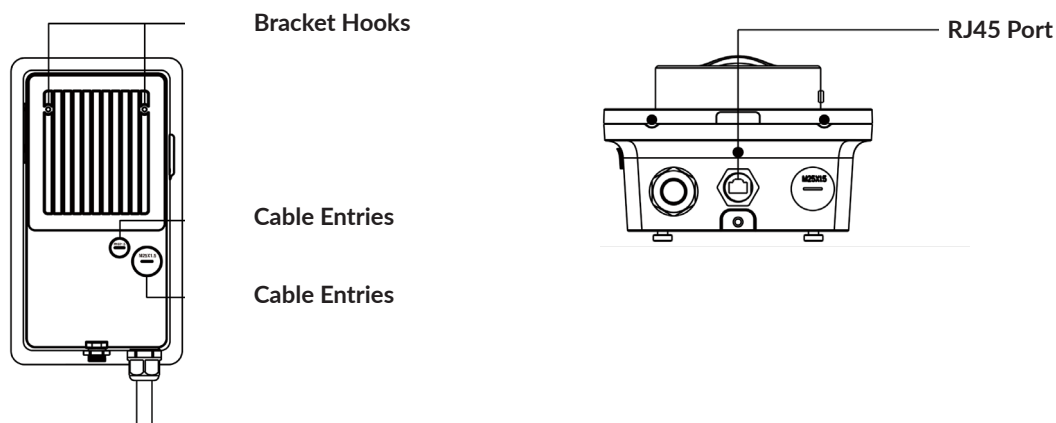
A fully trained installer is required to carry out the installation of Deta.e charge points. The training can be conducted on deta-e.co.uk and a certificate is provided upon completion.

The **eDock** and **eDock+**, with their compact design, consists of a mounting base that can be screwed to a wall or fitted to a post. A full range of accessories including mounting posts are available.

The charge point is simply connected onto the base, with four anti tamper screws holding this in place. These are then covered with the supplied caps.



Installation of the eVoomXT is just as easy as the eDock and eDock+. There is a mounting bracket that fits to the wall or post. The charge point hooks on and uses a security screw to secure it. It comes pre-wired and with a mounting bracket that fits to the wall or post.



For data, a cable with a RJ45 connector plugs into the bottom. Alternatively, the rear cable entry point can be used. In this case, a cover will need to be removed and RJ45 connector plugged in.

Commissioning

For commissioning you need to download the Autel Config app either via the links on the Deta.e website or from your usual provider.

The Autel Charge app is for end users and the Config app is for installers.

Accessories



EVC7101
eDock/eDock+
Single Unit Mounting Post



EVC7102
eDock/eDock+
Dual Unit Mounting Post



EVC7111
eVoomXL/eVoomXT
Single Unit Mounting Post



EVC7112
eVoomXL/eVoomXT
Dual Unit Mounting Post



EVC7160
100A Single Phase MID Energy
Meter CT 1 Module DIN Rail Mount



EVC7161
In Line 100A Single Phase MID
Energy Meter 2 Module DIN Rail



EVC7162
100A Three Phase MID Energy
Meter CT 4 Module DIN Rail Mount



EVC7163
In Line 100A Three Phase MID
Energy Meter 4 Module DIN Rail



EVC7170
Split Core Current Transformer
Clamp 24mm Diameter



Customer Service & Support

Our Deta.e team is dedicated to providing system design support and guidance to housing developers, local authorities and end users nationally. This covers EV charge points connected to individual properties and those serving communal and workplace parking areas.

Deta.e also provides customer support to ensure a smooth customer experience. Along with our software partners, we are able to monitor connected EV charge points and troubleshoot any issues.



Track Record

Extensive experience supplying house builders with quality products



Easy Installs

Fast, simple installations make this ideal for homeowners & contractors



Dedicated Installers

Trained installers to assist any installation



Support on Demand

Technical support provided



Reliable

eDock warranty: 2 yrs Parts & Labour (extendable)
eVoom warranty: 5 yrs Parts & Labour
eVoomXT warranty: 5 yrs Parts & Labour



Specification – eDock

Product Information	
Model	eDock
Product Number	EVC7001
Connection Capacity	Single Phase, 7.4kW AC
Charging Connector	Un-tethered, IEC 62196/Type 2
Charging Protocol	Mode 3 (EN/IEC61851)
Electrical Properties	
AC Charging Output	7.4kW, 32A@230V AC*
Input Voltage	230 AC nominal
Input Frequency	50 Hz
Input Current (max)	32 A
Energy Monitoring	Power and energy monitoring as standard via app
Overcurrent Protection	Internal overcurrent protection
Communication	
Status Indication / HMI	Deta Multi-colour LED's on front cover
Standard	WiFi 802.11b/g/n @ 2.4GHz; Ethernet; Bluetooth; RS485
Installation	
PEN Fault Protection	Built-in open PEN protection (detection + isolation). Deta EV Home can safely be installed without an earth-rod
Earth Fault Protection	Integrated 30mA AC and 6mA DC
Service Fuse Protection	Static load management via app
Physical Properties	
Dimensions (H x W x D)	192mm x192mm x109mm
Mounting Type	Pole/Wall mounted
Colour	Anthracite Grey
Unit Material	Polycarbonate
Environmental Properties	
Operating Temperature	-30 to +50° C
Operating Humidity	Up to 95%RH, non-condensing
IP Rating	IP54, IK10
Standards and Compliance	
EMC Compliance	EN61000-6-3:2006, EN61000-6-2:2019
Safety Compliance	EN 60950-1:2006 + A11 + A1, EN60950-22:2006, BS7671:2018 + A1:2022
EV Charging Compliance	EN61851-1:2019, EN61851-21:2002, EN61851-22:2002, IEC62196-1

*Charging power may vary based on vehicle make and model as well as electrical installation setup.

Specification – eDock+

Product Information	
Model	eDock+
Product Number	EVC7002
Connection Capacity	Single Phase, 7.4kW AC
Charging Connector	Un-tethered, IEC 62196/Type 2
Charging Protocol	Mode 3 (EN/IEC61851)
Electrical Properties	
AC Charging Output	7.4kW, 32A@230V AC*
Input Voltage	230V AC nominal
Input Frequency	50 Hz
Input Current (max)	32 A
Energy Monitoring	Power and energy monitoring as standard via app
Overcurrent Protection	Internal overcurrent protection
Communication	
Status Indication / HMI	Deta Multi-colour LED's on front cover
Standard	WiFi 802.11b/g/n @ 2.4GHz; Ethernet; Bluetooth; RS485
Installation	
PEN Fault Protection	Built-in open PEN protection (detection + isolation). Deta EV Home can safely be installed without an earth-rod
Earth Fault Protection	Integrated 30mA AC and 6mA DC
Service Fuse Protection	Automated load management via wired CT and MID meter (included)
Physical Properties	
Dimensions (H x W x D)	192mm x192mm x109mm
Mounting Type	Post/Wall mounted
Colour	Black
Unit Material	Polycarbonate
Environmental Properties	
Operating Temperature	-30 to +50° C
Operating Humidity	Up to 95%RH, non-condensing
IP Rating	IP54, IK10
Standards and Compliance	
EMC Compliance	EN61000-6-3:2006, EN61000-6-2:2019
Safety Compliance	EN 60950-1:2006 + A11 + A1, EN60950-22:2006, BS7671:2018 + A2:2022
EV Charging Compliance	EN61851-1:2019, EN61851-21:2002, EN61851-22:2002, IEC62196-1

*Charging power may vary based on vehicle make and model as well as electrical installation setup.

Specification – eVoomXL & eVoomXT

Product Information	
Model	eVoomXL & eVoomXT
Product Number	EVC7006 & EVC7005
Connection Capacity	Single Phase, 7.4kW & Three Phase, 11kW/22kW AC
Charging Connector	Un-tethered, IEC 62196/Type 2
Charging Protocol	Mode 3 (EN/IEC61851)
Electrical Properties	
AC Charging Output	7.4kW, 32A@230V AC & 22kW, 32A@400V AC*
Input Voltage	230V AC & 400V AC nominal
Input Frequency	50 Hz
Input Current (max)	32 A
Energy Monitoring	Power and energy monitoring as standard via app & LCD display
Overcurrent Protection	Internal overcurrent protection
Communication	
Status Indication / HMI	Touch Screen & Multi-colour LEDs
Standard	WiFi 802.11b/g/n @ 2.4GHz; Ethernet; Bluetooth; 4G; RS485
Installation	
PEN Fault Protection	Built-in open PEN protection (detection + isolation). Can safely be installed without an earth-rod
Earth Fault Protection	Integrated 30mA AC and 6mA DC
Service Fuse Protection	Automated load management via wired CT & MID Meter (available seperately)
MID Meter	Inbuilt +/- 1%
Physical Properties	
Dimensions (H x W x D)	335mm x 187mm x 85mm
Mounting Type	Post/Wall mounted
Colour	Grey
Unit Material	Polycarbonate
Environmental Properties	
Operating Temperature	-40 to +55° C
Operating Humidity	Up to 95%RH, non-condensing
IP Rating	IP54, IK10
Standards and Compliance	
EMC Compliance	EN61000-6-3:2006, EN61000-6-2:2019
Safety Compliance	EN 60950-1:2006 + A11 + A1, EN60950-22:2006, BS7671:2018 + A2:2022
EV Charging Compliance	EN61851-1:2019, EN61851-21:2002, EN61851-22:2002, IEC62196-1

*Charging power may vary based on vehicle make and model as well as electrical installation setup.





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