



# THE ULTIMATE COMMERCIAL EV CHARGING SOLUTIONS



For a safer more sustainable future





## The European leader in charging

GARO Electric is one of the Irelands main EV Charging providers, and is part of the long-established GARO Group. Our Nordic counterparts are market leaders in the region due to their extensive history, knowledge, and expertise in this space.

After more than 80 years in the industry, GARO is a reliable supplier of all types of electric vehicle charging. With our own experts in product development and advanced technical knowledge in software and electronics, we manufacture our own quality products. We always ensure that future technology developments can be implemented in today's GARO products, making a GARO electric car charger a future-proof choice with reliable and knowledgeable support on hand.

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# KEY FEATURES & CONSIDERATIONS

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## FUTURE-PROOF SOLUTIONS

Chargers that work today and adapt to the future.

GARO EV Chargers offer a range of features and options to ensure they will stand the test of time, we offer durable solutions with the latest technology.

GARO is FUTURES M A R T.

- Real time diagnostics / fault reporting
- Network connectivity options
- Dynamic Load Management
- Cloud based remote management
- Minimise vandal / accident issues – IK10 rating
- IP rated (dust and water ingress) to suit the environment
- Potential for branding & customisation
- Operating Temperature Range to suit all environments
- Remote RCD testing and auto reset (option)

Thanks to GARO'S strong focus on sustainability, striving to be a leader in corporate responsibility comes naturally. We always ensure that future technology developments can be implemented in GARO products. An electric car charger from GARO is a future-proof choice with reliable knowledge and support on hand.

### Nationwide Support

Our GARO team is available nationwide to provide on hand technical support.



### Trusted Supplier

GARO  
your trusted supplier



### Smart Solutions

All GARO EV  
Chargers are backed  
with comprehensive  
warranties.

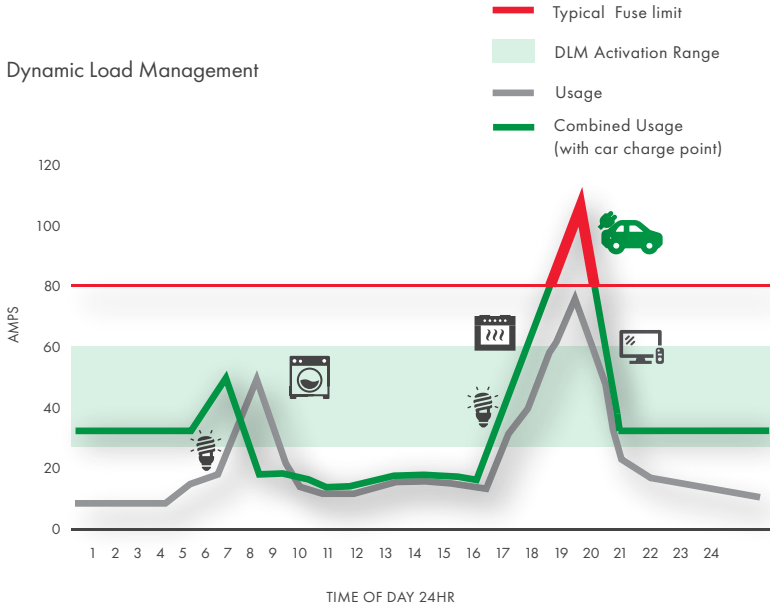


# KEY FEATURES & CONSIDERATIONS



## DYNAMIC LOAD MANAGEMENT

With Dynamic Load Management, the charging station, or a group of charging stations, uses an external meter that is usually placed in the main distribution board of the property. The charger keeps track of how much electricity is used in the rest of the installation and can therefore adjust how much electricity is used for EV charging at any given moment. At the same time, you can use the capacity you have in the installation more efficiently, so that the car charges as quickly as possible - without the main fuse tripping.



## WHAT DO I NEED TO PROTECT THE MAIN FUSE?

### GARO Charger with DLM capabilities

All commercial EV chargers from GARO are prepared for dynamic load management. The software required for this is always pre-installed.

### Energy meter

In order for load management to be dynamic, an external energy meter is required to be placed in your main distribution board. This meter then measures the total electricity use.

### Communication cable

The charger and the energy meter need to be able to communicate with each other. Therefore, they are connected with a communication cable. This is easy to do and normally takes place when the power cable is being installed.

# KEY FEATURES & CONSIDERATIONS

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## COMMUNICATIONS

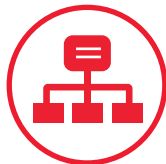
RFID is standard in all models.



## 4G or LAN CONNECTION

GARO offers chargers with either integrated 4G modems or connection via a LAN cable. A charging station with a 4G modem can handle the communication for many charging stations through a master-slave configuration. In installations where a 4G solution would not be ideal and a LAN connection is used (e.g. underground car parks) an external modem can be fitted outside.

Talk to our GARO technical experts for assistance with project specification, potential site limitations and communication requirements.



## WHICH SOFTWARE SOLUTION

GARO are pleased to offer our full OCPP back office solution that works with all brands of OCPP compliant chargers.

## WHAT IS OCPP

OCPP stands for Open Charge Point Protocol. This protocol allows charge points (hardware) and charge point software to talk to each other. A major advantage of OCPP is that you are not locked into one vendor/software provider for the life of the product. OCPP allows you to mix and match EV charging points and software from different providers.

All GARO charge points are configured with OCPP technology and ready to integrate to a payment & monitoring software solution.





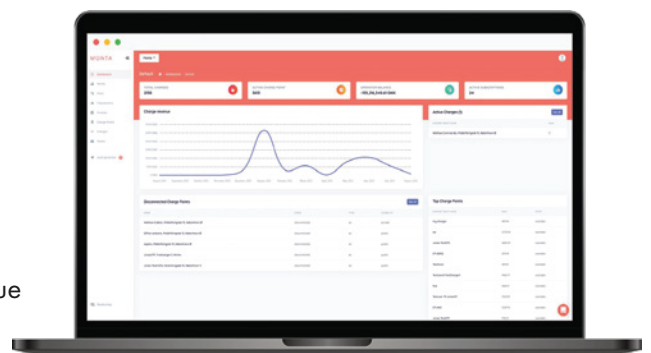
# GARO Back Office

## Why choose OCPP Software?

OCPP software is the future in EV Charging. A major advantage of OCPP is that you are not locked into one vendor/software provider for the life of the product. OCPP allows you to mix and match EV charging points and software from different providers.

## Charging Features

- Easy set up
- Extensive insights on usage and consumption
- Charge point map
- Smart queue (reserve a charge session)
- Track CO2 emissions and actively reduce them
- Multiple payment solutions
- Ability to add your charge point to a public network for revenue generation



## Suitable For

- Apartment Buildings and Workplaces
- Retail, Hospitality, Public Car Parks, Service Stations etc.
- Use with any OCPP compatible EV Charger
- Advanced functionality e.g. alerts, enhanced analytics, credit card payments etc



# Entity Pro Charging

*Powered by sustainable choices*

**Entity is the next-generation charging box with innovation, safety and quality at the fingertips of EV drivers across the globe.**

Introducing GARO Entity, a new series of complete charging boxes. Future-proofed and adapted for harsh climates like the Nordics. We've made it easier than ever for you to have full control over your charging. Whether you want to schedule your charging (according to time or electricity unit price), control user access or track consumption, the GARO Connect app is always there to help. Each GARO Entity comes with 4G, Wi-Fi and LAN support, so you can trust that your charging can always be monitored and controlled. With its minimalist design and powerful software, GARO Entity Pro is the perfect solution for your charging needs.

Supporting both single and three phase charging, it charges all brands and models of cars. The Entity Pro is designed with an open source interface, which gives you the freedom to choose a back office operator you prefer, ensuring you are never locked into a single supplier. While using the GARO Connect app, you control the functions of the charging station, such as charge monitoring, billing, documentation, and user management.

Entity Pro is prepared for the cars of the future and the demands for higher charging speeds. Utilising single or three phase charging to allow the cars to charge at rates up to 22kW. What's more, Entity Pro utilises smart phase-balancing to ensure the car receives the maximum power available in the building, with no wasted time or energy. The smart DLM solution can allow for smart utility meters to be connected directly in the balance unit, to ensure the Entity charge stations protect the main fuse of the property. Our 3-tier smart DLM system stands out from the competition, allowing a more detailed load management system in installations using multiple distribution boards. Auto phase rotation adds further intelligent control of large EV loads.

The future-proof software in Entity Pro means that it is prepared for services such as Plug and Charge (ISO 15118), taking away the current struggles of needing multiple apps, cards and payment services. With Plug and Charge, the car automatically handles the identification and charging when you connect your vehicle to the charging station, giving hassle-free and easily accessible charging wherever you are. A smart solution that attracts everyone towards a fossil-free future.





# Entity Pro

- 7.4 kW or 22KW charging
- IP54 rating
- IK10
- LAN/4G or Meshed Wi-Fi connectivity
- DC leakage protection
- Test button
- Movable socket
- Automatic smart phase balancing
- Dynamic Load Management
- GARO Connect App
- Fully OCPP compliant
- Lockable
- IEC Certified
- Integrated Meter - MID meter option
- Up to 4 charge points per mounting pole
- PME Protection Optional 7.4 kW
- Independently Certified TUV



Scan to browse our range!





# Dual Wall Mounted Chargers

## The smart charger for two electric vehicles

GARO GTB+ is a dual charger suitable for charging vehicles at homes, apartment buildings or workplaces. The GTB+ is manufactured from marine grade aluminum and equipped with dual sockets for charging two vehicles simultaneously in a simple, safe and efficient manner. The GTB+ always comes equipped with DC fault protection and RCD type A, in accordance with electrical installation regulations and international standards.

The unit can be connected via 4G/LAN with RFID readers as standard. The GARO Twin charger enables you to charge two vehicles simultaneously - simply, safely and effectively. The GTB+ is prepared for Dynamic Load Management, which automatically reduces the charging current and minimises the risk of tripping the main fuse. Together with our back office software service, you have full control over all charging at your apartment building or workplace.







## Features of the GARO GTB+ Range

- Attractive design and robust construction
- Designed to withstand harsh climate, manufactured from marine grade aluminum
- Highly visible LED indication
- Capable of creating large charging clusters and controlling with dynamic load control.
- Can be combined with LS4 Chargers
- RCD type A with DC fault monitoring
- Simple, flexible installation and mounting brackets for wall or post
- Connection via LAN & 4G, GARO's 4G routers are available as an option
- Lockable service hatch, shielded inside to avoid electric shock
- Optional customisation of appearance (complete/partial foiling)
- Metering and RFID management
- Full OCPP communication to back office system



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## Public Charging Pillars

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### Quality and design for public environments

#### Robust and proven chargers with high quality, future-proof connectivity & OCPP support

The GARO's LS4 station is manufactured from marine grade aluminum. Its construction allows it to be directly bolted to the ground (e.g. concrete), or mounted on a pole assembly. The top of the charger features a 360° light indicator which displays the charge status of each station from a distance. The front of the charge point is illuminated and available for complete customisation with a logo and instructions for customers.

The station is equipped with two illuminated Type 2 sockets that are protected from weather conditions. It has separate protective and residual current circuit breakers for each socket, and an integrated electronic communication system between the station and the car. The stations are equipped with intelligent controllers for each socket, which enables communication with OCPP.

As a part of an installed station group, Dynamic Load Management (DLM) can be activated, which dynamically controls the power of each LS4 socket working in the group.





## Features of the GARO LS4 Charging Pillar

- Simple and intuitive operation
- User identification - RFID reader
- Charger status information
- Optional integration with Back Office (OCPP)
- Built-in communication (4G or LAN)
- Ability to activate DLM (dynamic load management of each socket)
- Personalisation with branding
- Floor-standing or wall-mounting
- Plug & play installation
- Local and remote monitoring and control of devices

### SUITABLE FOR:

- Public Car Parks
- Shopping Centres
- Bus & Rail Stations
- Restaurants, Hotels etc

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# Atle 24kW DC Charging

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## Compact fast charging with Atle, 24 kW

With a power of 24 kW DC and equipped with CCS or with both CCS and CHAdeMO, GARO's DC charger Atle can quickly charge any electric vehicle. The robust and compact design makes it easy to install either on a wall or stand. Atle is an ideal solution for, car dealers, car repair shops, car rental companies, vehicle depots, etc.

### Easy fast charging for everyone

Charging is started after identification with RFID tag. The clear touch screen is easy to operate. How long the charge takes always depends on the car, but under ideal conditions, the car can be charged at up to 75 miles per hour at full power.

### Robust, high-profile and connected

Atle is robust and durable with a front that can be personalised. The unique design that maintains cooling without an air filter means that the need for service is minimal. Connection via OCPP 1.6 opens up the possibility of connecting to payment services and control via an operator.



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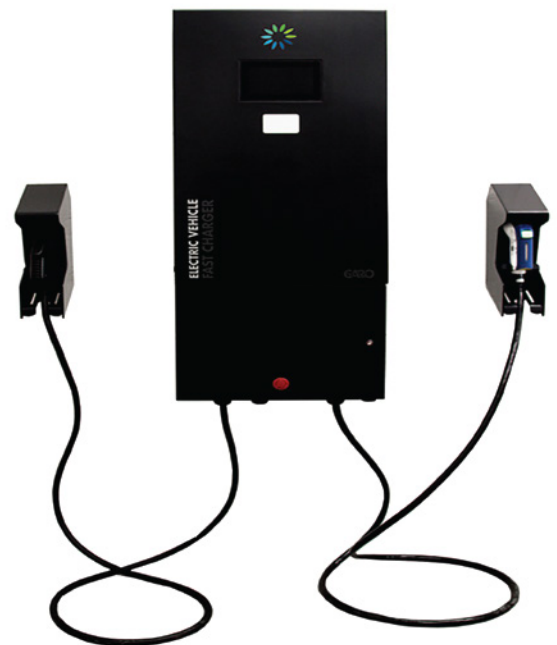






## Perfect for a quick top up on the go

GARO's Alte fast chargers are designed for a long life in harsh environments. They charge all types of rechargeable cars and are perfect where people do short, quick errands and need a quick top-up of electricity, such as at fast food restaurants, petrol stations or rental car companies. With an RFID tag, it is easy for the user to be identified and start charging. GARO's DC chargers are also OCPP compatible, which means they are completely operator independent. Of course, our fast chargers can also be dressed in self-designed foiling in order to have the opportunity to strengthen your brand and highlight contribution to the green environment.



# Althea 50kW DC Charger

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## The future is electric

For anyone running a business that customers visit by car, whether to shop, get coffee, eat, exercise or just take a break, this is a great opportunity to attract more customers. Installing a charging station that offers fast charging will not only attract more customers, it will also reward you with greater loyalty by clearly displaying which side of the climate debate you support.

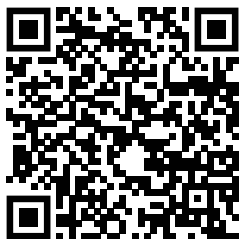
## A quick top-up

GARO's latest DC fast charger - Althea is not only stylish and contemporary, but also superior in all respects in terms of remote control, operation and maintenance.

Althea can be equipped with both CCS and CHAdeMO charging cable. It is suitable for use with all electric cars that support fast charging. The straight forward touchscreen makes the charger easy to operate.



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## **GARO Althea – quality that makes a difference**

### **CHARGES ALL CARS**

Althea is equipped with both CHAdeMO and CCS charging cables to ensure that all electric car models can be charged.

### **A QUICK POWER BOOST**

During a half-hour coffee break, a car can be fast-charged enough to cover another 60 -100 miles.

### **SIMPLE TOUCHSCREEN**

The touchscreen and symbol-based interface make it easy to operate.

### **FULL CONTROL WITH RFID**

An RFID card reader protects Althea from unauthorised use. If connected to a charging network, the RFID card reader can be used to identify users.

### **CUSTOM SCREENSAVER**

The standby mode screensaver can be customised with your brand or message.

### **ENCLOSURE**

The Althea enclosure is manufactured from proprietary metal with a modern design. The housing is made of environmentally friendly Magnelis®, which is strong, corrosion resistant and self-healing. Althea is equipped with a heating function to ensure long-term reliable operation in harsh climate conditions.

### **CUSTOM WRAP**

Althea can be customised with your own vinyl wrap to strengthen your brand and advertise your contribution to the environment.





## **RAPID 120 DC**

Created to power even the most demanding of vehicles, the RAPID DC charging stations have been designed to comply with the highest quality standards and latest technology. They offer best performance in terms of power management, communications, reliability and efficiency.

The Chargers are compatible with CCS and CHAdeMO standards, with the option of single or dual DC Outlets. Simultaneous charging on both DC outlets is possible, and an optional AC outlet can allow simultaneous charging of up to three vehicles.

Dynamic Load Management is possible between the outlets, as well as between a cluster of RAPID DC charging stations.





# RAPID 120 DC

## A powerful, reliable rapid charger

- Modular electronics
- 120 kW Chargers are upgradeable to 180 kW
- CCS charging up to 120 kW
- Option of dual CCS
- 150 – 1000V DC output
- Auto-retractable cable system
- Optional 22kW AC charging socket
- RGB LED status indicators
- Optional Auto resetting RCD's
- Multi-language 7" colour touchscreen
- Option for 21" colour screen (with adverts)
- Simultaneous charging at all available power outlets
- Dynamic Load Management between chargers and grid
- Contactless payment terminal option



Contact our sales team for project installations.



## RAPID 180 DC

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To meet the market demand for fast chargers, GARO presents the Ingeteam RAPID DC 180 kW, distributed by GARO.

This new fast charger is designed to deliver power to even the most demanding vehicles.

The charging station has been developed with the aim of meeting the strictest requirements and quality standards while offering the best performance in terms of energy management, communication, reliability and efficiency. These chargers are compatible with the CCS and CHAdeMO standards and can be equipped with one or two cables in DC charging mode.

Load balancing is achieved between the CCS cables or between clustered RAPID DC charging stations with DLM 2.0 included as standard.







## RAPID 180 DC

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- Modular electronics
- CCS charging up to 180 kW
- Option of dual CCS
- 150 – 1000V DC output
- Auto-retractable cable system
- Optional 22kW AC charging socket
- RGB LED status indicators
- Optional auto resetting RCD's
- Multi-language 7" colour touchscreen
- Option for 21" colour screen (with adverts)
- Simultaneous charging at all available power outlets
- Dynamic Load Management between chargers and grid
- Contactless payment terminal option



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# GOING FURTHER NATIONWIDE

*The Excellence team is exclusive to GARO offering full nationwide coverage*

## Our Offerings

- Commissioning
- Overseeing complete installation
- Trouble shooting (on site nationally or remotely)
- Preventative Maintenance
- Warranty extensions & service agreements
- Recording of all activities on our dedicated service software platform

For project based installations please contact [ev@garo.ie](mailto:ev@garo.ie)



We are Futuresmart

GARO Futuresmart stands for innovation and products that are being developed for the future. Products that ensure energy saving, smarter control and that are easy to use.

GARO Futuresmart will constantly evolve through new products, training, certifications, sustainability solutions, user satisfaction, service, etc. The goal is always to make things simpler, better and smarter, for a safer and more sustainable future.





**Smart charging stations for every application  
workplace, apartment buildings, car parks  
or upgrading your fleet**



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