



EV CHARGING

Powering the future

- ✓ Scalability
- ✓ Flexible Charging
- ✓ High Quality Chargers





The European Leader in Charging

GARO Electric is one of Ireland's main EV Charging providers, and part of the long-established GARO Group. We are market leaders in this space after more than 80 years in the electrical 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.

A technician in a dark jacket and tool belt is seen from behind, working on a large, open electrical cabinet. The cabinet is filled with a complex array of wires, circuit breakers, and other electrical components. The scene is set outdoors on a construction site, with a pile of gravel in the foreground and a grassy field in the background under an overcast sky.

GARO E-Mobility Excellence Team

Our dedicated team of field engineers are here to support your e-mobility journey. From helping you to choose the correct equipment and design the project, to commissioning and support of the installation into the future. Our own team of engineers are strategically placed around the country to offer quick on site response when needed.

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KEY FEATURES & CONSIDERATIONS

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 with durable solutions and the latest technology.

- 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)
- OCPP

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.

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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.

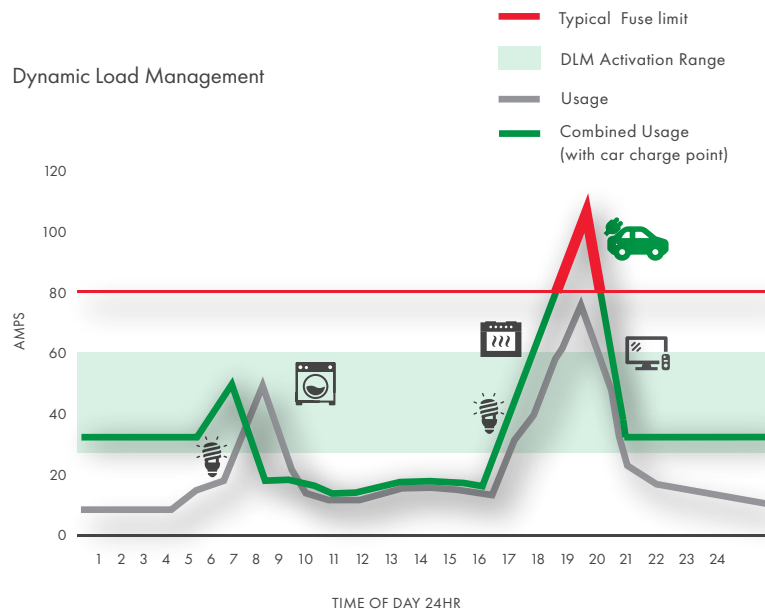


KEY FEATURES & CONSIDERATIONS

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 on 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 measures the total electricity use.

Communication cable

The charger and the energy meter communicate with each other via a communication cable. This when the power cable is being installed.

KEY FEATURES & CONSIDERATIONS



COMMUNICATIONS

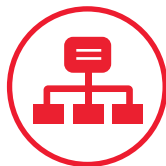
RFID is standard in all models.



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

Our full OCPP back office solution works with all brands of 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.



Entity Pro Charging

Entity Pro is our next-generation Charging Station providing innovation, safety and quality to EV drivers across the globe.

Introducing Entity Pro, our latest AC charging product that displays the knowledge we have gained from being one of the first European EV charging manufacturers. With Entity Pro, you can effortlessly schedule your charging according to energy prices, closely monitor your energy consumption, and control everything through our user-friendly GARO Connect App. We pride ourselves in providing multiple communication options as standard for your convenience. Our Entity Pro is equipped with 4G Sim, Wi-Fi, and LAN connectivity, ensuring a reliable and uninterrupted connection. You have the freedom to choose either our free GARO Connect App or any other back office provider to connect with. And with our proxy service, you can even use both options simultaneously.

We have designed Entity Pro to anticipate the needs of the future and the increasing demand for higher charging speeds. By implementing three-phase auto-rotation, Entity Pro can monitor your electrical supply and adjust accordingly, ensuring optimal charging performance. Our intelligent 3-tier load control system is unparalleled, offering a comprehensive connection to various electrical supply boards in large sites.

The software of Entity Pro is truly future-proof, making it compatible with upcoming services such as Plug and Charge (ISO15118) and Smart Charge. Say goodbye to juggling multiple apps, cards, and payment services. With plug and charge, your car will automatically handle the identification and charging process when connected to our station, making charging hassle-free and accessible anytime, anywhere.

Ease of installation is also a top priority for us. Our innovative Smart-bracket system simplifies the installation process, and extra brackets can be easily added in the future for expanding your charging installation. This means keeping initial costs low and providing flexibility for future needs. Invest in Entity Pro today and experience the ultimate charging solution for your EV.



Features of the GARO Entity Pro

- Full third party certification (TUV)
- Nationwide technical support
- 7.4 kW or 22kW charging
- IP54 rating
- IK10
- RFID/ Wi-fi/ LAN
- DC leakage protection
- Test button
- Movable socket (Left or Right)
- 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

Scan to browse our range!





GTB+ Dual Charging

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

- Dual 7kw or 22kW AC Output
- 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



Scan to browse our range!





Public Pillar Charging

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

- Dual 7kw or 22kW AC Output
- 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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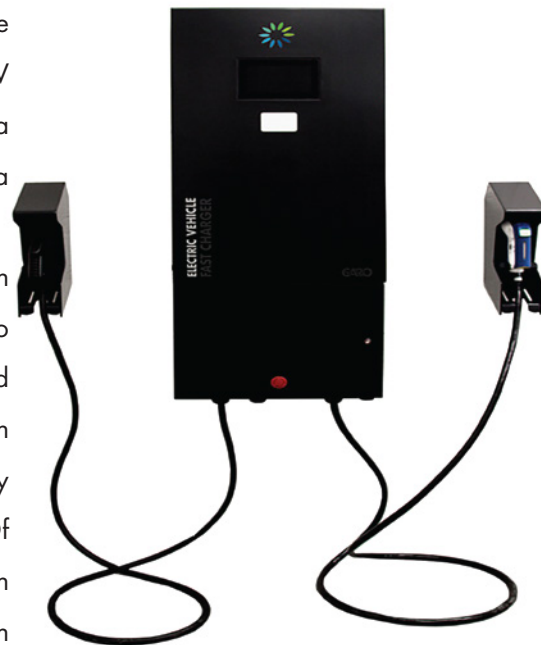


Atle DC Fast Charging

Perfect for the SME

Given their low input power requirement, Atle 24kW DC Fast Chargers are perfect for fleet and staff parking in smaller commercial properties where power availability is restricted. The ability to quickly charge EV's with 24kW rather than the typical 7kW or 11kW output of an AC Charger gives a massive advantage. Atle 24kW provides up to 3 x faster charging using a similar electrical supply to that of an AC Charger.

GARO's Alte 24kW fast chargers are designed for a long life in harsh environments. They charge all types of EV and are perfect where people do short, quick errands and need a quick top-up of electricity, such as fast food restaurants, petrol stations, rental car companies or staff car parks. With an easy to read touchscreen, it is easy for the user to start charging either by open charging, RFID fobs, or through a back office software system. Of course, our fast chargers can also be dressed in self-designed branding in order to strengthen your brand and highlight your contribution to the green environment.



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 your 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 or through a back office system. 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.



Scan to browse our range!





Rapid 60kW Fast Charging

Rapid 60 provides swift DC charging for all electric vehicles and boasts a durable design built to endure. With the capability to charge up to three vehicles simultaneously, Rapid 60 ensures comprehensive charging solutions for all needs.

- Retractable cable management system.
- High-strength metal body, choice of galvanised steel or stainless steel.
- Without ventilation slots at the rear, it can be installed against a wall or two units back to back.
- Available in multiple connection configurations of 1 to 3 outputs.
- Simultaneous AC and DC charging of up to 3 EV's.
- Dual DC charging at 30 kW.
- 360° RGB status LEDs on holders and charger's top.
- RFID reader.
- 10.1", multi-language colour touch screen.
- Dual Ethernet port with switch mode
- OCPP, Autocharge, Plug & Charge



Power your Vehicle with Confidence



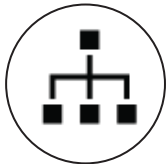
Suitable for

Apartment buildings, Workplaces, Revenue Generation



Installation

Simple , Safe & flexible installation

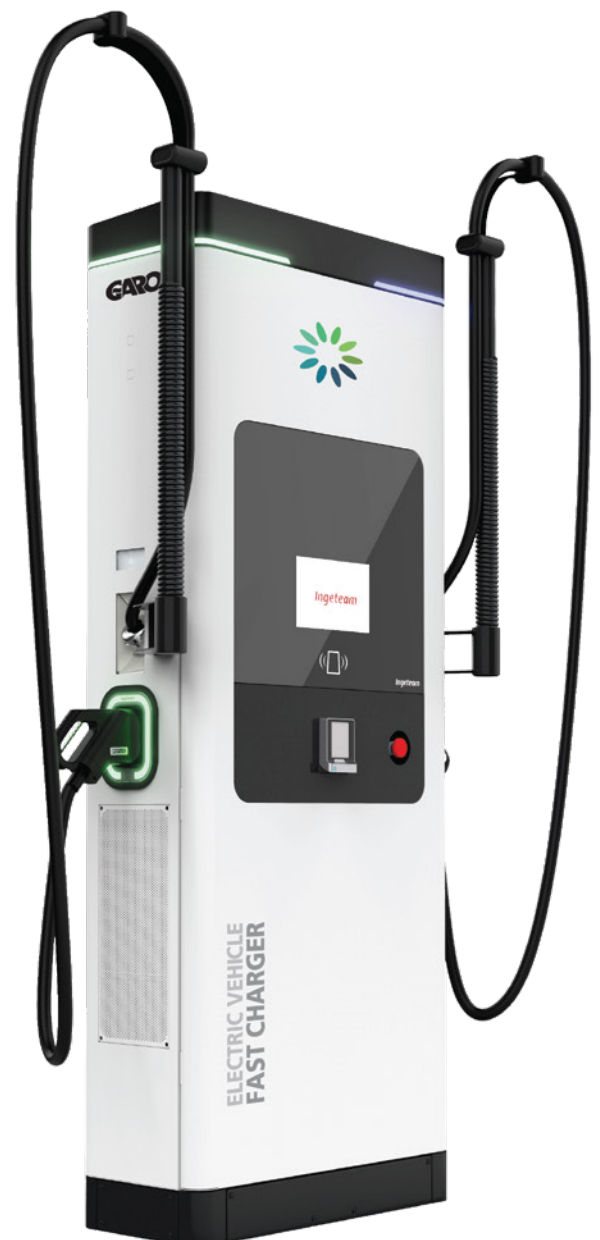


OCPP Billing

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

Options

- Contactless Bank Card Reader
- 4G
- Connector Locking
- Smart DLM
- Cloud Manager



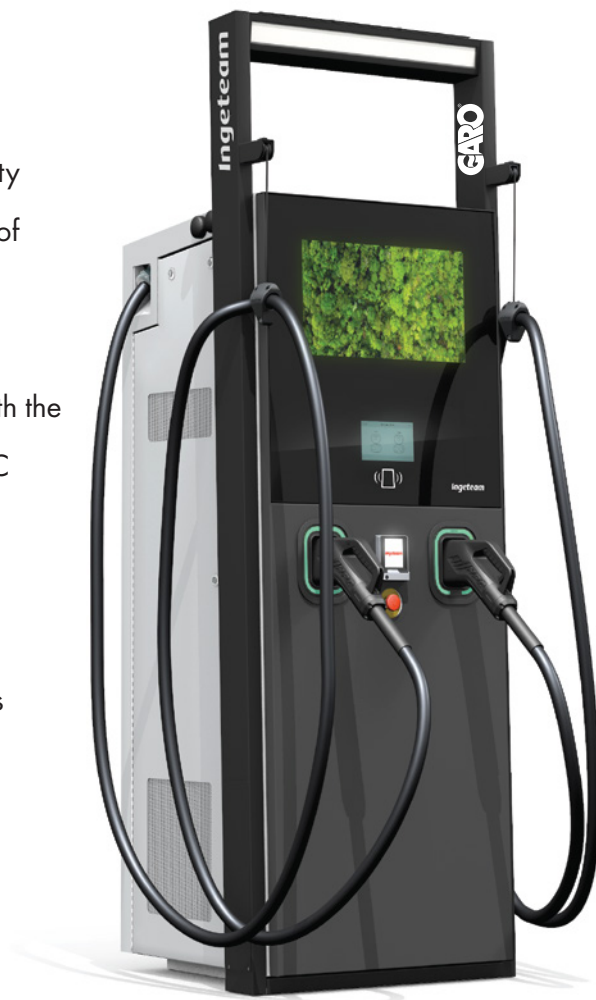


Rapid 120 kW and 180kW DC Chargers

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.





A powerful, reliable rapid charger

- Modular electronics and Power Modules
- 120 kW Chargers are upgradeable to 180 kW
- Option of Single or dual CCS
- Chademo options available
- 150 – 1000V DC output
- Auto-retractable cable system
- MID DC Metering
- Optional 22kW AC charging socket
- RGB LED status indicators
- Optional Auto resetting RCD's
- Multi-language 7" colour touchscreen standard
- 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
- Locking systems available
- ISO15118 Plug and Charge and Smart Charge ready





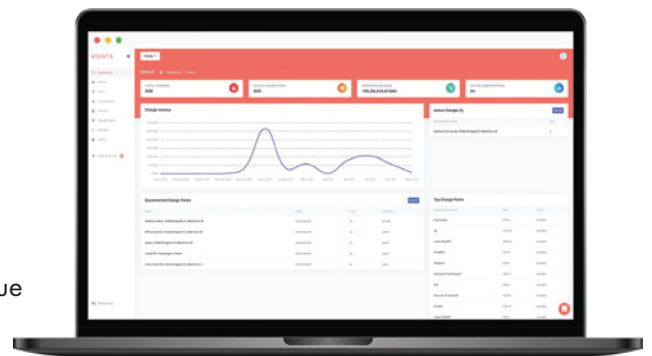
GARO Back Office Solutions

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

GARO CONNECT APP

Powering the future



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