

E-charge + lighting combination poles multifunctional, modular & uniform



Our streets are becoming increasingly cluttered with all kinds of charging stations, lampposts, cameras and traffic signs. In the upcoming years we will have millions of additional charging points to support the growing demand for electric driving, so things will only get busier.

The Hydro family of charging light combination poles offers a sustainable solution: a multifunctional, modular pole that combines functions such as a charging point and lighting. For fewer objects in public spaces and a uniform streetscape.

Smart charging, ensuring a uniform streetscape

Whether you are a municipality or a company with a large parking lot: The streetscape is becoming more crowded with charging stations, lighting, signs, security cameras and other facilities. The Hydro family of e-charge and lighting combination poles offers a smart, space-saving solution by combining these functions in one stylish, modular pole. This creates a neat, safe and future-proof outdoor space.

Charging station with or without light pole?

Combine lighting, charging points, cameras, traffic signs or other applications in one multifunctional pole. The system is modular: you choose the configuration according to your requirements. Whether you choose a charging light combination pole or just a lower bollard with a charging function without a light pole, the basis always remains the same, ensuring a neat and uniform streetscape.

Space-saving and stylish

With multifunctional poles you can avoid a tangle of poles and equipment. This provides more space, a tidy environment and a professional look. Ideal for parking lots, industrial estates and public spaces.

Adaptable to your environment

Thanks to the modular design, you can easily adjust the poles, also visually. You wish for powder coating in a specific colour, a different type of fixture or additional accessories? It's all possible for a pole that perfectly matches your corporate identity or location.



Each bollard/charging lighting combination pole has two charging points (sockets)



Combine street lighting with charging point



Modular & flexible composition



Colour adaptable to the environment



Uniform design & freedom in functionality

“With one smart solution, we are responding to the upcoming growth of millions of charging points, without cluttering the streets.”

Sustainable and safe

The poles are made of recycled aluminium and are 100% recyclable. Recycling requires only 5% of the energy needed to produce primary aluminium. In addition, they comply with the EN 12767 standard for crash safety: safe for road users and infrastructure.

Easy to install and maintain

The installation of the charging light combination pole is quick and efficient, so that it is operational in a short time. The charging part is fully integrated into the design, without any external body components. Thanks to the clever layout, all parts are easily accessible, making the structure easy to maintain and service.

One point of contact, full-service solution

Hydro and Chargepoint Europe provide you with a one-stop-shop solution. Hydro supplies the poles, Chargepoint can take care of the complete installation, cabling, activation and management. From maintenance to invoicing: it's possible to run through a single point of contact. This ensures a scalable, future-proof charging solution, without any additional work. In addition to Chargepoint, it is also possible to work with a local partner. Our e-charge lighting combination poles comply with the laws and regulations of many European countries, except DACH. Want to know if our solutions are suitable for your region and your project? Please contact us.

All benefits at a glance

- **Multifunctional** – Combine charging, lighting and more
- **Uniform streetscape** – Clear, modern appearance
- **Modular & flexible** – Configure according to your needs
- **Passive safe** – Complies with crash-safety standard EN-12767
- **Sustainable** – Made from 100% recyclable aluminium
- **Customisable** – Choose colour, finish and accessories
- **One stop shop** – One point of contact for everything

Ready for a modern and scalable charging concept?

View the technical specifications on the back or contact us for tailored advice.

| General specifications | |
|----------------------------------|---|
| Number of charging points | 2 |
| Type of charging points | Type 2 connection (IEC62196-2 standard) |
| Access control | Plug & Charge (automatic recognition) |
| | RFID – Charging cards |
| | Local whitelist |
| | Backoffice (remote management) |
| Supported network systems | TT, TN-S & TN-C-S |
| Nominal output voltage | 230V - 1 phase |
| | 400V - 3 phase |
| Maximum design current | 32A per phase |
| Maximum design power | 22 kW (for complete charging station) |

| Load | |
|----------------------------------|-----------------------------------|
| Dynamic load distribution | Optional (with RTU and TCP meter) |
| Mutual power distribution | TCP |

| Cybersecurity | |
|--------------------------|---|
| SIM card | APN username/password possible |
| EVSE verification | HTTP Basic authentication with or without TLS certificate |

| Environmental conditions | |
|--------------------------|------------------|
| Temperature | -25 °C to 40 °C |
| Safety class | Class 1 |
| Protection | IP44 |
| Impact protection | IK10 |
| Application | Indoor - outdoor |

| Technical specifications | |
|---|---|
| Power cable diameter on terminal block | 2,5 - 10 mm ² |
| Switches | 4-pole relay that switches 3 phases simultaneously |
| Protection against residual current | Integrated 6 mA DC fault detection and 30 mA AC fault detection per channel |
| Inputs | 1x RJ45 – ETH0 for connection to network or Modbus TCP meter |
| | USB Type C for web interface |
| Outputs | 1x RJ45 ETH1 for outgoing communication to slave module |

| Pole specifications | |
|--------------------------------------|---|
| Type | Free-standing charging (light) pole |
| Base diameter | 168 mm |
| Product height bollard | 1800 mm |
| Product height bollard + pole | 6000 mm (other dimensions on request) |
| Installation | On foundation (available on request) |
| Material | Aluminium, Hydro HCP (High Capacity Pole) - EN AW 6005A T6 |
| Colour | RAL7016 (standard), other RAL colours on request |
| Door size | 500 x 104 mm (2 doors) |
| Modularity 1 | Bollard powder-coated in RAL7016, or another RAL colour |
| Modularity 2 | Extension for lighting or signpost, in a conical or cylindrical stepped shape |
| Modularity 3 | Single or double bracket |
| Recyclability | 100% |

Hydro is a global supplier of aluminium with activities across the entire value chain, from bauxite mining to the production of extruded aluminium products and building systems. The company is based in Norway with 35,000 employees in more than 40 countries. With over a century of experience in renewable energy production, technology development and forward-thinking partnerships, Hydro is committed to strengthening the viability of the customers and communities it serves.

| Communication and protocols | |
|--|-----------------------------|
| Controller card | Phoenix Contact CHARX |
| Vehicle communication | Modus 3 conform IEC 61851-1 |
| Internet | LTE / 4G |
| | Ethernet / LAN |
| Backoffice communication protocol | OCPP 1.6 |
| Supported RJ45 protocols | OCPP |
| | TCP IP |
| Modbus | TCP IP |
| | RTU |



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