



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)

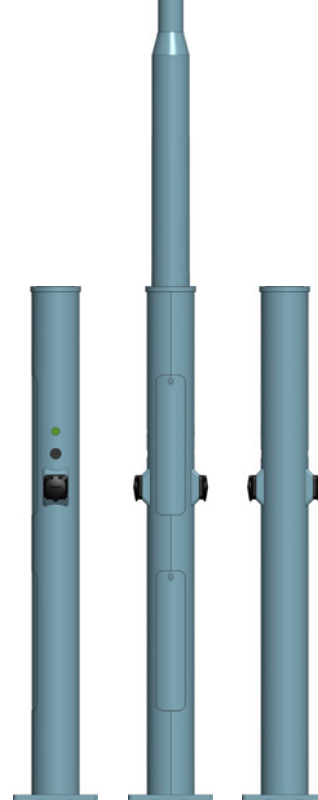
Combine street lighting with charging point



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)

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

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

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

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.



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