

ENELION LUMINA

Easy to use,
convenient to install.

Minimalist design acclaimed at international design contests, modular structure allowing for easy adaptation to different requirements, 15-minute installation process, and control via mobile application – these are the most important, but not the only, advantages of ENELION LUMINA charging stations.



red dot winner 2023



Minimalistic design



15-minute installation process



User-control
via mobile application



Dynamic Load Balancing



Various housing color
and material variants



User friendly

MINIMALIST DESIGN ACCLAIMED AT DESIGN CONTESTS

Aesthetics and durability are paramount to us. For that reason, along with solid anodised aluminium housings, so characteristic of our products, we decided to use a polycarbonate composite-hardened synthetic material, highly resistant to scratches. Additionally, there is also an option available with the use of powder coating.

MODULAR STRUCTURE

The modular structure provides a perfect solution based on a single, universal base-piece and interchangeable charging heads.

READY TO WORK IN 15 MINUTES

Your EV charger will be ready to perform online within 15 minutes from unboxing. That's how quick it is to install our charging station.

CONTROL VIA MOBILE APP

Take control of your EV charging experience with our app. Easily manage and schedule charging sessions, monitor energy consumption, and control user access for added security and convenience.

ADVANCED TECHNICAL SOLUTIONS

Dynamic Load Balancing (DLB) of chargers in the network. The total power available to the devices is dynamically shared between the stations in the network.

VERSATILE INSTALLATION OPTIONS

The original structure allows you to install the charger on any surface: a lamppost, signpost, column or concrete pole. This solution allows you to make use of the existing street furniture and avoid costly landscape rearrangements.

ENELION LUMINA

Modular
structure

ENELION
LUMINA
CABLE
PREMIUM

silver
anodized
aluminum



ENELION
LUMINA
SOCKET
PREMIUM

silver
anodized
aluminum



ENELION
LUMINA
BACKPLATE



OPEN

CLOSE



ENELION
LUMINA
CABLE
PREMIUM

black
anodized
aluminum



ENELION
LUMINA
SOCKET
PREMIUM

black
anodized
aluminum



ENELION
LUMINA
SOCKET

polycarbonate
housing



reddot winner 2023



IF DESIGN AWARD 2022



1st place in a New
Technology category
Good Design 2021

ENELION LUMINA

Structure, features, advantages

Management via mobile app

The ENELION app allows you to effortlessly manage your EV charging. With features like scheduling, energy monitoring, and user access control, it provides a seamless and convenient charging experience.



ENELION app available at



Secure limited access

Using an RFID card or a suitable management system, selected users can be granted access, and the charging station can be locked or unlocked.

Convenient billing system

ENELION LUMINA has an integrated three-phase energy meter that allows the billing of individual charging sessions with over 99% accuracy. A MID-certified meter installed in the unit is also available for public applications.

Embedded PLC communication compliant with ISO 15118

ENELION LUMINA is prepared for communication based on ISO15118 standard.

This enables bi-directional vehicle communication, use of Plug & Charge function and connection to energy management systems (EMS).

Type 2 plug

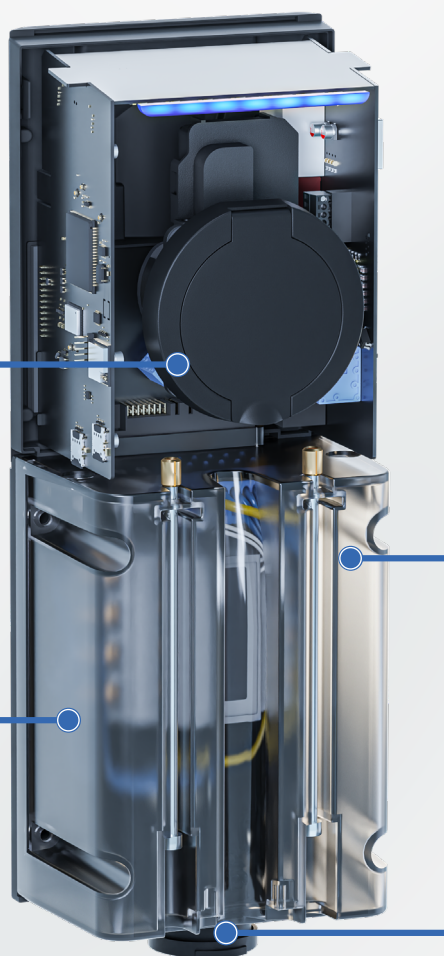
ENELION LUMINA is ready to charge all existing and future range of electric vehicles using Type 2 plugs (socket/cable*). The station allows 1-phase or 3-phase charging.

Built-in memory unit with backup settings

Thanks to the memory built into the backplate, configuration of the unit can be restored very easily in case of head replacement.

Dynamic Load Balancing (DLB)

The intelligent EV charging power limitation system enables splitting the power dynamically between the units in such a way that their total charging power does not exceed overall output of the connection.



Robust structure

ENELION LUMINA station incorporates high-quality components and the structure itself is designed to provide high levels of ingress protection and resistance to mechanical impact – IP54 and IK10 respectively. As a result, the charger can be successfully used in public spaces.

Battery-powered control unit standby*

In the event of a power-cut, the charger supports the communication module for up to 1-hour operation time and provides an option to cease the charging session and disconnect the charging cable (RFID authorisation / mobile app), as well as to access the charger remotely via the management system and mobile app.

Remotely-controlled Schuko* socket

A non-public charging station can be equipped with a Schuko socket enabling the user to simultaneously charge the car and, for example, an electric scooter.

The socket allows single-phase devices with max. current consumption of 10 A to be powered.

It is possible to remotely control the Schuko socket operation (On / Off + delay) via the application.



*option

ENELION LUMINA

Technical specification



| | |
|-------------------------------------|---|
| Housing | Polycarbonate, anodized aluminum, powder coating* |
| Ingress protection rate | IP54 |
| Impact protection | IK10 |
| Flammability class | UL94-V0 |
| Charging connector type | <ul style="list-style-type: none">• ENELION LUMINA Socket – Type 2 socket• ENELION LUMINA Cable – Type 2 connector with 5.2 m cord |
| Residual current protection | Embedded residual current monitor – ENELION RCMB 6 mA DC |
| Energy metering | Integrated 3-phase energy meter > 99% accuracy |
| Certified electricity meter (MID) | Impulse* – possible to install inside the housing |
| User interface | <ul style="list-style-type: none">• multi-color LED strip that indicates the status of the device• dedicated app |
| Online communication unit | <ul style="list-style-type: none">• integrated LTE/4G modem• Wi-Fi 2.4 GHz b/g/n – direct access point to the station with an option to hide the AP and connect the station to local Wi-Fi network |
| Minimal signal quality requirements | <ul style="list-style-type: none">• Wi-Fi: -60 dBm• GSM: -85 dBm |
| OCPP | compliance with OCPP 1.6 J protocol |
| Authorization | <ul style="list-style-type: none">• built-in RFID/NFC reader – Mifare Classic/ Free Charge• dedicated app |
| Current/Charging power | <ul style="list-style-type: none">• up to 74 kW at 32 A 1-phase• up to 22 kW at 32 A 3-phase (TN system) |
| Charging voltage | 3 x 400 V AC/230 V AC ($\pm 10\%$) |
| Supply voltage | <ul style="list-style-type: none">• 3 x 400 V AC/230 V AC ($\pm 10\%$) (TN/IT)• possibility of connecting the cable from the top, bottom and the back of the station |
| Other features | <ul style="list-style-type: none">• configuration with no additional tools• remotely controlled Schuko outlet (max. 2000 W/10 A)*• remote start / stop, delay and charging schedule• temperature and humidity monitoring inside device |
| Operating temperature | From -30°C to +55°C |
| Maximum altitude for installation | 2000 m |
| Height | 390 mm |
| Depth | 133 mm |
| Width | 155 mm |
| Weight | 3.3-8.9 kg (depending on device version) |
| Compliance | <p>2014/53/EU (RED); 2011/65/EU (RoHS); 2014/30/EU (EMC); 2014/35/EU (LVD); UK SI 2016 No. 1101; UK SI 2016 No. 1091; UK SI 2017 No. 1206; UK SI 2012 No. 3032</p> <p>The following BSI and ETSI technical standards and specifications have been applied:</p> <p>ETSI EN 300 328 V2.2.2:2020-03; EN 62196-2:2017-06; EN IEC 61851-1:2019-10; EN IEC 61851-21-2:2021-09; EN 62196-1:2015-05; ETSI EN 301 511 V12.5.1:2017-10; ETSI EN 300 330 V2.1.1:2017-08; ETSI EN 301 489-1 V2.2.3:2020-07; ETSI EN 301 489-17 V3.2.4:2021-05</p> |

*option

rev. 27.07.2023