enelion

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.

reddot 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 to you 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.

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Modular structure

ENELION LUMINA ALU CABLE

silver anodized aluminum

ENELION LUMINA ALU SOCKET

silver anodized aluminum

ENELION LUMINA BACKPLATE

OPEN

CLOSE

ENELION LUMINA ALU CABLE

black anodized aluminum

ENELION LUMINA ALU SOCKET

black anodized aluminum

ENELION LUMINA SOCKET

polycarbonate housing

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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

Download on the App Store | GET IT ON Google Play | EXPLORE IT ON AppGallery

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

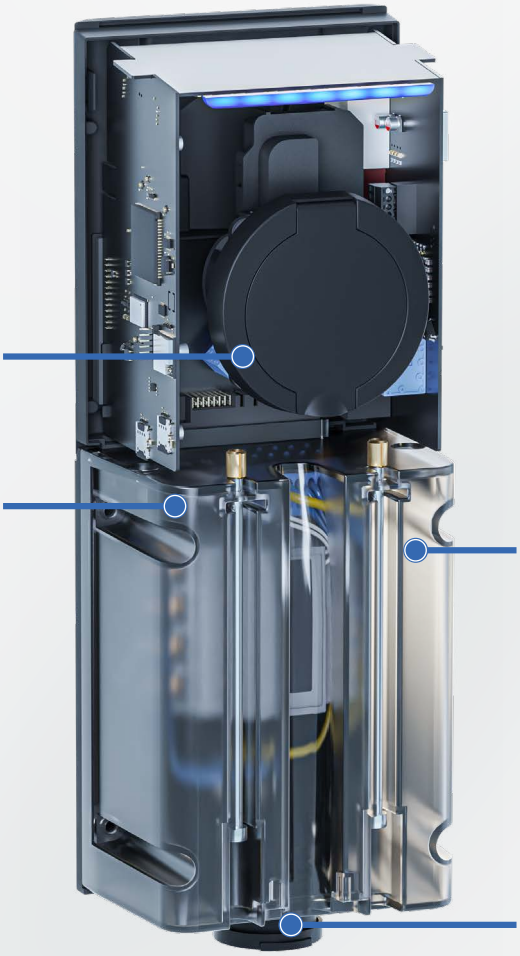
ENELION LUMINA has an integrated three-phase energy meter that allows the billing of individual charging sessions with over 99% accuracy. A MID-certified meter installed in the unit is also available for public applications.

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.



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.

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.

Remotely-controlled socket 230 V*

A non-public charging station can be equipped with a socket 230 V 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 socket 230 V socket operation (On / Off) via the application.

*option

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Technical specification

Housing	Polycarbonate, anodized aluminum, powder coating*
Ingress protection rate	IP54
Impact protection	IK10
Flammability class	UL94-V0
Charging connector type	• 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	• multi-color LED strip that indicates the status of the device • dedicated app
Online communication unit	• 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	• Wi-FI: -60 dBm • GSM: -85 dBm
OCPP	compliance with OCPP 1.6 J protocol
Authorization	• built-in RFID/NFC reader - Mifare Classic/ Free Charge • dedicated app
Current/Charging power	• up to 7.4 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 (±10%)
Supply voltage	• 3 x 400 V AC/230 V AC (±10%) (TN/IT) • possibility of connecting the cable from the top, bottom and the back of the station
Other features	• configuration with no additional tools • remotely controlled Socket 230 V 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	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 The following BSI and ETSI technical standards and specifications have been applied: 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

*option

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