ROSA

CHARGING STATIONS
FOR ELECTRIC VEHICLES

2w1

LED lighting and charging electric vehicles EV

www.rosa.pl

They illuminate the streets and charge electric c

The idea of SMART CITY has taken over the world - searching for solutions that will increase the quality of life of city dwellers and at the same time will be environmental friendly is a challenge faced by modern industry. The designers from ROSA also took it up and designed a charger for electric cars in a lighting pole.

Chargers are available in the form of SAL-EV lighting poles with a height of 6-10 m dedicated to public spaces and KARIN LED EV 1.3 m high, which are perfect for public spaces and private properties. **ROSA chargers are available in versions with a power of 3,7 to 22 kW, which are most often recommended by electric vehicles manufacturers because they extend the battery life.**

Combination of the functions of space lighting and charge of electric vehicles.

Electric vehicles charging stations installed in SAL and KARIN street lighting poles are perfect for this in public spaces. In the slender casing of an anodized aluminum column, the company built all the components required for public charging stations including an electricity meter compliant with the MID directive, electrical security, an RFID reader facilitating the authorization process, and multi-color indication of the charger status. The station supports the OCPP protocol, thus enabling integration with the management and billing system. **The applied solutions allow users to safely and intuitively carry out the process of charging vehicles, as well using smartphones.**

KARIN LED EV BASIC chargers, which are not equipped with payment functions, are recommended as charging stations for home use.

cars

Cheaper and faster investment

Electric car charging stations fitted in street lighting poles are a perfect solution for cities and municipalities that modernize their outdoor lighting. Together with the replacement of lighting energy-efficient, they can also provide residents with charging points for electric vehicles. **It is a much cheaper and faster investment compared to the installation of a traditional charging station.**

There is no need for a new connection, as the charging station installed in the pole uses the existing connection. Designers from ROSA propose solutions adapted to the existing lighting network in order to place charging stations within it in the most beneficial way. With this type of investment, **it is also not necessary to report construction works or perform geodetic as-built inventory**, because the installation of the charger involves replacing the old lighting pole with a new one with an extended function. It is also important that no new element appears in the urban space that could adversely affect the aesthetics of the surroundings.

Intuitive charging system

RGB module informing about charging status

Green colour
AVAILABLE
charging point

Blue colour
OCCUPIED
charging point

Red colour
INACTIVE
charging point


KARIN LED EV
smart
column

Two variants due to the application

KARIN LED EV

In public spaces

LED module
light temperature 5000K, 4000K, 3500K, 2700K
frosted diffuser made of PMMA

Safe and intuitive charging proces

Charger status indication - RGB module
green colour - charging point is available
blue colour - charging point is occupied
red colour - charging point is inactive

RFID reader

Electricity meter compliant with the MID directive

Anodized aluminum housing
The station is available in 10 anodizing colours, each with the option of chemical brightening with anti-corrosive and decorative properties

The wiring chamber is locked with a key

The option of integration with a billing system
Open OCPP protocol v.1.6
Communication
3G or Ethernet

KARIN LED EV BASIC

On private properties

LED module
light temperature 5000K, 4000K, 3500K, 2700K
frosted diffuser made of PMMA

Safe and intuitive charging proces

Charger status indication - RGB module
green colour - charging point is available
blue colour - charging point is occupied
red colour - charging point is inactive

The wiring chamber is locked with a key

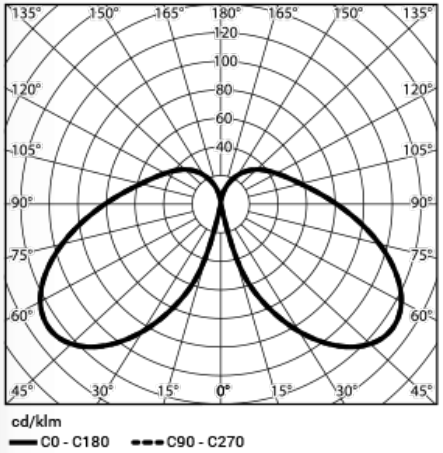
Anodized aluminum housing
The station is available in 10 anodizing colours, each with the option of chemical brightening with anti-corrosive and decorative properties

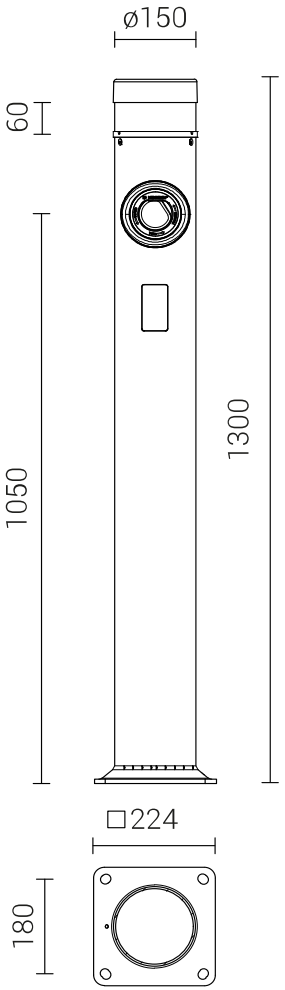
Technical specifications

Dimensions:	1,3 m, ø150 mm
Material:	aluminium
Maximum charging power:	22 kW
Power supply:	max 3F: L1, L2, L3, N, PE; 400 V, 50 Hz
Charging connector:	IEC 62196 Type-2
Charging Type:	Mode 3
Communication:	Ethernet, HSPA/GSM/GPRS/EDGE OCPP protocol
Types of protection:	residual current device and overcurrent circuit breaker
Energy meter:	MID

Lighting specifications

Number of LEDs:	8
Expected useful lifetime:	L90F10 - 50 000h, L80F20 - 100 000h
CRI:	>80 dla 2700K, 3500K; >70 dla 4000K, 5000K
Input voltage frequency:	50 - 60Hz
Diffuser:	frosted made of polymethyl methacrylate (PMMA)
Power factor:	≥ 0,9






SAL-EV
smart
columns

Lighting pole with vehicle charger

SAL-EV
In public spaces

Electricity meter compliant with the MID directive

RFID reader

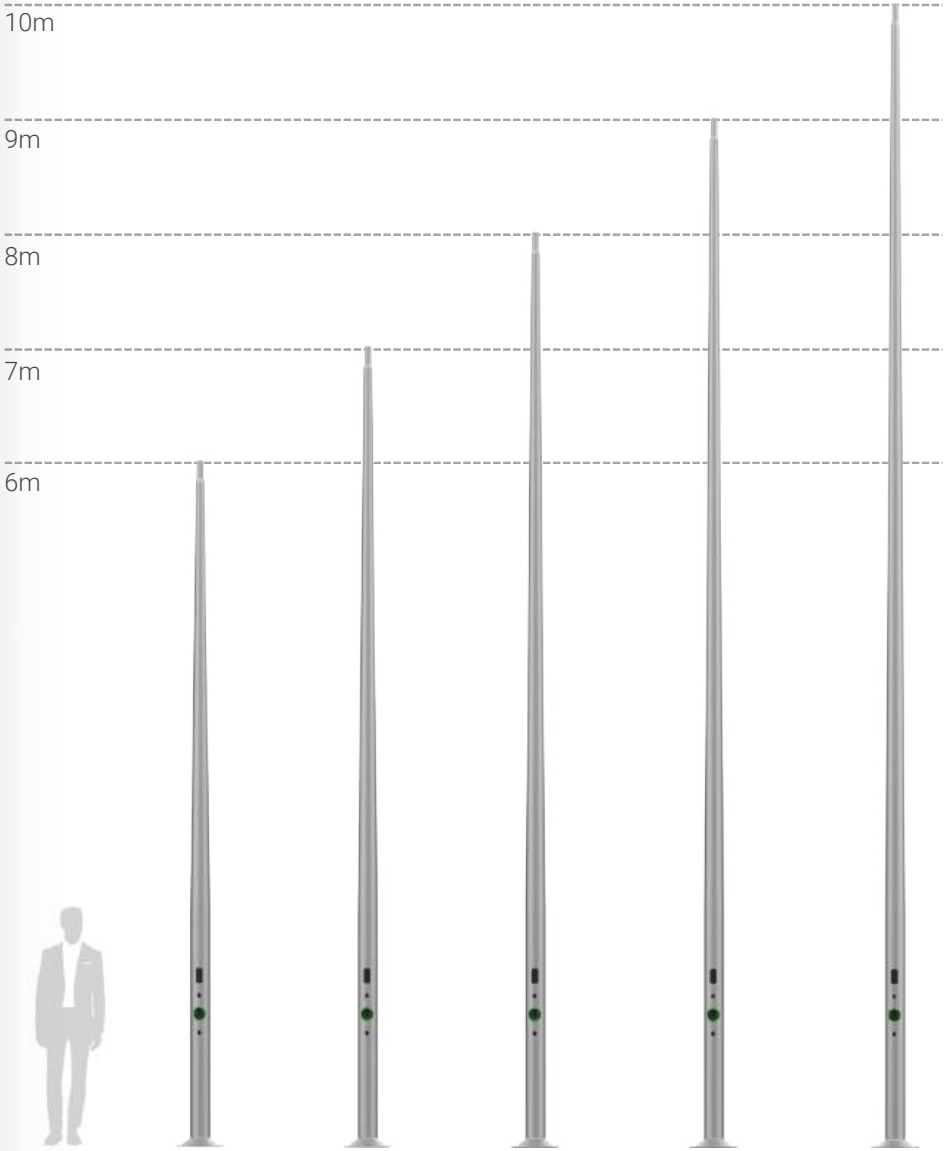
Charger status indication - RGB module
green colour - charging point is available
blue colour - charging point is occupied
red colour - charging point is inactive

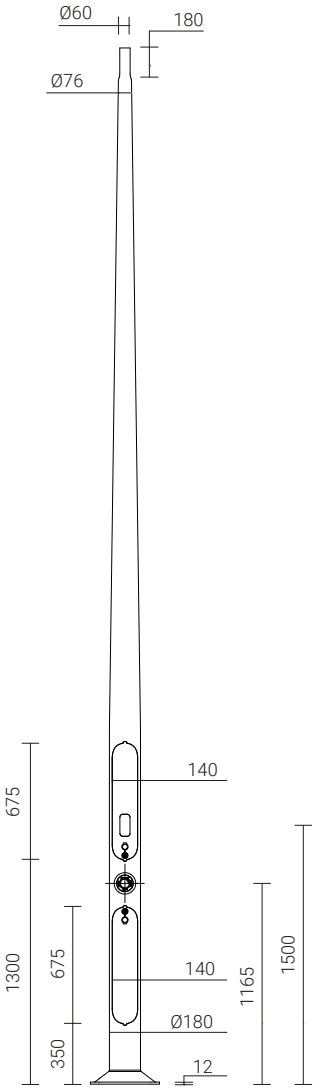
Safe and intuitive charging proces

Communication
3G or Ethernet
The option of integration with a billing system
Open OCPP protocol

Anodized aluminum housing
The station is available in 10 anodizing colours, each with the option of chemical brightening with anti-corrosive and decorative properties

Product height variants





Technical specifications

Dimensions:	6 - 10 m
Material:	aluminium
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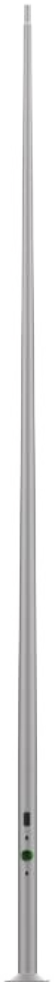
Types of protection:	residual current device and overcurrent circuit breaker
Energy meter:	MID

Possibility to assemble a full set

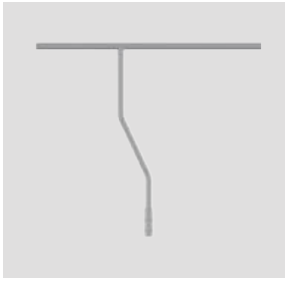


Version 1- example

+ luminaire directly mounted on the pole

Version 2- example

+ extension arm



+ luminaire mounted on an extension arm


ROSA

Anodized aluminum housing

All ROSA electric vehicle charging stations are made of anodized aluminum, thanks to which their surface is resistant to corrosion and is resistant to harmful weather conditions. ROSA aluminum anodized poles are available in 10 colors with the possibility of shining.

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v2.2022