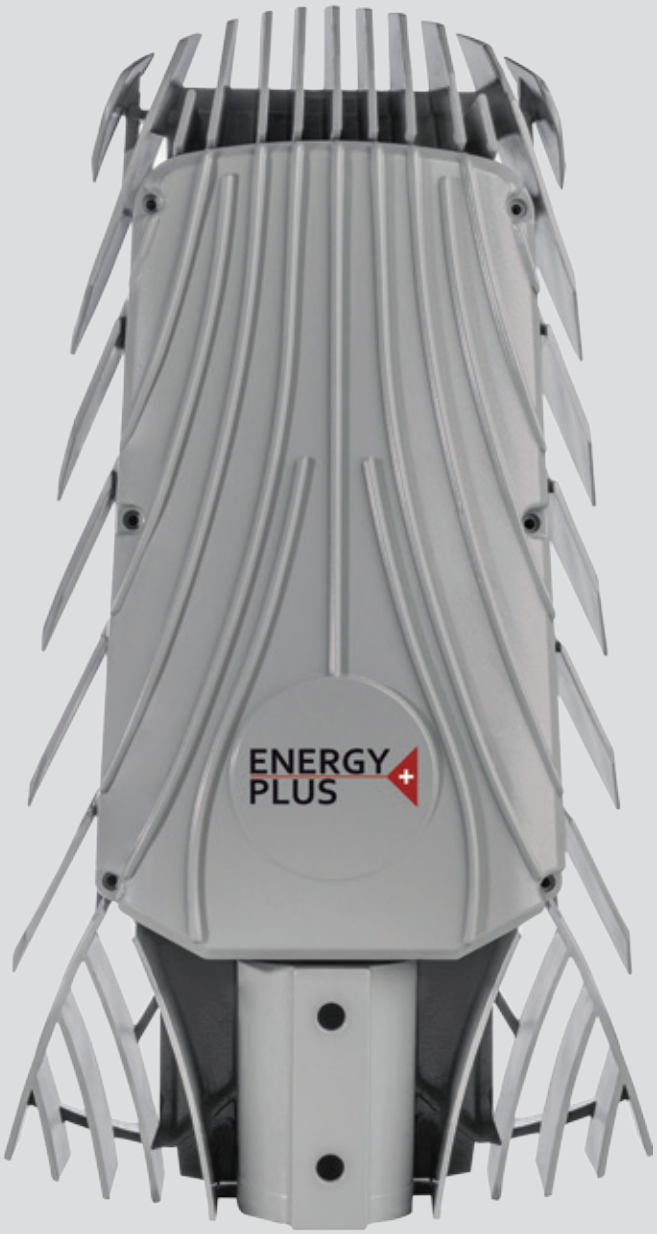
2020

CATALOGUE



ENERGY PLUS

THE REVOLUTION IN LED LIGHTING

energyplusled.gr

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ENERGY PLUS
THE REVOLUTION IN LED LIGHTING

CORPORATE PROFILE

ENERGY PLUS
THE REVOLUTION IN LED LIGHTING

ABOUT US

Energy Plus manufactures LED technology luminaires. The Company's scientific staff carries out pioneering research in the fields of design, lighting, optical units of the LED chips and electronics. As a result it holds patents and international certifications in its field of activity.

In 2016 Energy Plus completed the design and moved on to the certification (CE ENEC) and started manufacturing LED technology luminaires. At the same time expanded the portfolio of available products to include LED bulbs and luminaires as commercial products, commencing its cooperation with other quality certified manufacturers.

Energy Plus has high calibre, dynamic and well-trained executives in all sectors of activity. By constantly investing in excellently trained staff and new technologies, it is a Greek company that aims to become recognized throughout Europe.

AT A GLANCE

2012
Energy Plus was founded in 2012, the object of its work being the manufacturing and utilisation of photovoltaic power production parks.

2015
In 2015 it created an LED lighting fixture manufacturing unit in the Industrial Area of Sindos, Thessaloniki.

2016
In September 2016 the Swiss interest international group 'EHOT ENERGY HOLDING AND TRADING LTD took a share of Energy Plus' share capital, dramatically increasing the Company's capital base and know how.

2018
The contract was signed with the municipality of Fyli for more than 4000 luminaires.

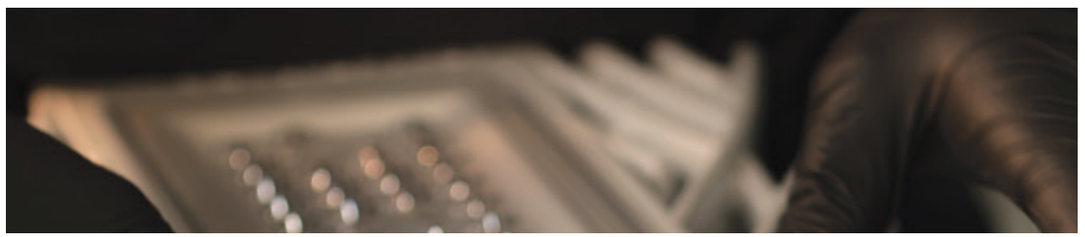
2019
Contract with the port of Hgoumenitsa was signed for around 100 luminaires.
Another contract, with the municipality of Alimos was signed, for around 4000 luminaires.

2020
Contract with the port of Thessaloniki was signed for more than 500 projectors.

CORPORATE PROFILE

OUR GOAL

ENERGY PLUS's goal is to provide high quality, certified LED technology luminaires for the European market, at competitive prices in comparison to other European manufacturers.

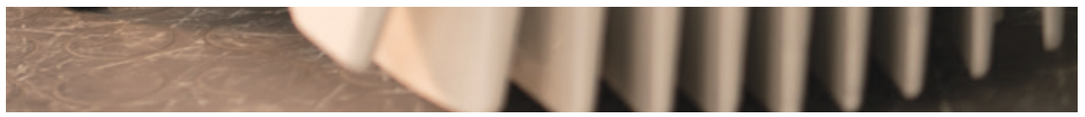


OUR MISSION

Our mission at ENERGY PLUS is to combine high quality and excellent aesthetics. We are consistently dedicated to European values regarding environmental sensitivity and high savings in energy and natural resources. We guarantee that our products are certified and of permanently high-quality.

OUR VALUES

At ENERGY PLUS we steadily upgrade and certify all our products to the highest European standards. We offer quality services and technical support to our Clients. We resolve complex Client problems, carrying out specialized lighting studies.



OUR TECHNOLOGY

At Energy Plus we place great emphasis on choosing the appropriate parts and materials for our products. We always select the best possible quality to meet requirements with respect to the display performance, comfort, energy efficiency, long-term operational life and reliability of all our products

ENERGY PLUS
THE REVOLUTION IN LED LIGHTING

APPLICATIONS

Energy Plus produces LED lighting fixtures for indoor and outdoor spaces, intended for use on:

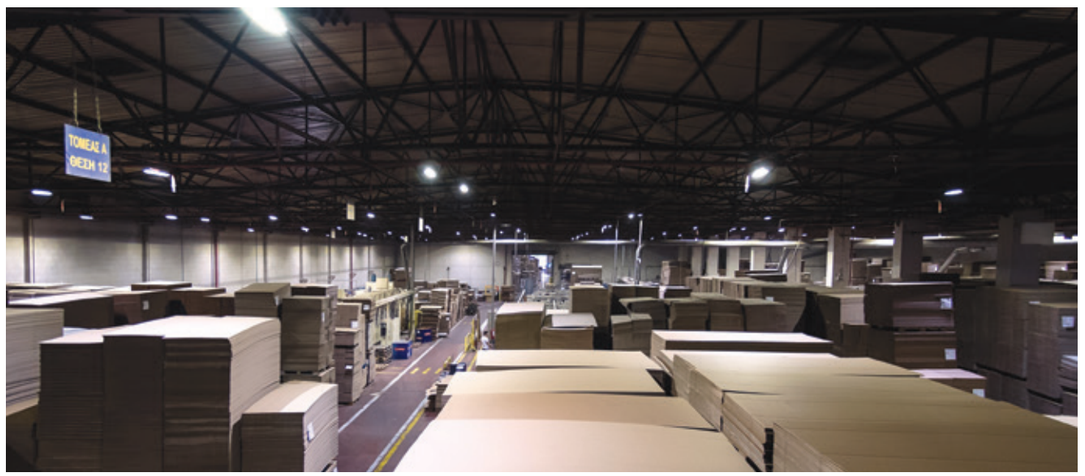
- street lighting (motorways and national, rural, country, city streets, etc.)
- lighting squares/parks, toll stations, outdoor spaces in general
- lighting of car, train, ship and airplane large outdoor parking and docking areas
- lighting of interior areas for industrial buildings, industrial offices, warehouses & storage complexes, sports facilities, indoor parking areas, department stores, tunnels & bridges, railways
- special requirement and application indoor and outdoor lighting

PROJECTS

ENERGY PLUS
THE REVOLUTION IN LED LIGHTING

STREET AND HIGHWAY LIGHTING

INDUSTRIAL LIGHTING



PORT OF MYKONOS

PORT OF IGOUMENITSA

PROJECTS

ENERGY PLUS
THE REVOLUTION IN LED LIGHTING

PRIVATE HOUSES

MUNICIPALITY OF FYLI

BASKETBALL COURT OF ALIMOS

REFERENCE PROJECTS

- Port of Mykonos
- Port of Igoumenitsa
- Port of Thessaloniki
- Municipality of Fyli
- Municipality of Alimos
- Municipality of Delta
- Sport Venue of Alimos
- Football court of MAS Atromitos Agiou Antoniou
- Fish Farms Selonda
- Hartel premises
- Kalfoplast premises

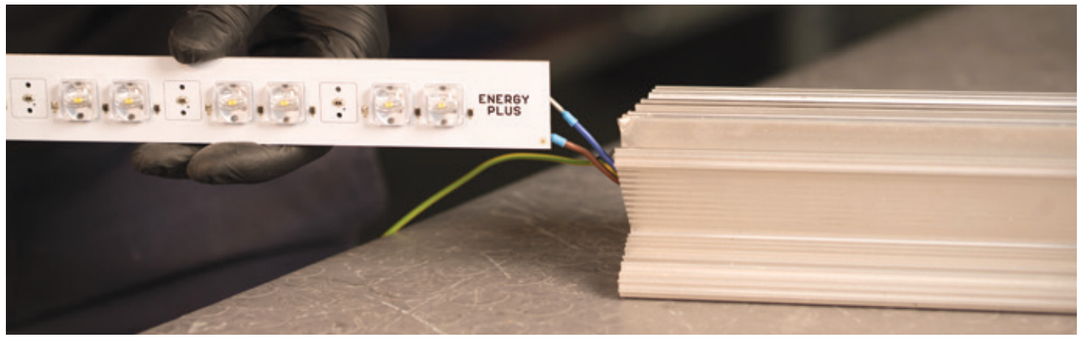
INNOVATION

BODY - SHELL

Our LED technology luminaires are designed using appropriate and sufficient heat dissipation as our main criterion. This parameter is crucial to the long-term problem-free operation of the LED Chips and the luminaire as a whole.
ENERGY PLUS luminaire's bodies are designed by us and are manufactured using a special aluminum alloy with high heat conductivity.

LED CHIPS

Light quality and stability depends on them. We work with all the major world leaders in LED Chip manufacturing for lighting and we place great value in research, development and manufacturing of LED Chips.
We use LED Chip families of high energy efficiency in all of our products, choosing carefully so that they meet our standards of the highest energy efficiency (lm/W), the longest lifespan and top grade reliability.



QUALITY

ENERGY PLUS
THE REVOLUTION IN LED LIGHTING

FACILITIES

Energy Plus is based in the Industrial Area of Sindos, Thessaloniki, in a 2500 m² production area, where the design, assembly, quality control (three stages) and packaging of final products takes place, and with an annual output capacity of more than 35,000 units. All parts and materials suppliers are locally based, resulting in real and immediate response, no matter the demand.

PRODUCTION

Our production process is strictly organized and conforms to the requirements of the ISO / OHSAS Standards and most important is organized according to the highest requirements of the ENEC Mark. For the ultimate assurance of our operational quality both in the control of incoming components and materials as well as in the assembling process itself, an audit by an independent accredited body is carried out at least once a year.

Having invested in an ERP information system, we are able to do rational inventory management (components, various materials, finished products) as well as to our production, thus facilitating and accelerating our overall operation at the highest accuracy precision punctuality.

QUALITY CONTROL

Prior to labeling with our trade mark any luminaire of our own production or of our partner's, we thoroughly control it in 3 stages and in more than 15 check points.

We record in detail all the components of our luminaires being able to trace where they are coming from. By performing backwards tracing on our luminaires down to slightest detail (material, work) we resolve immediately any problem during their lifecycle. Furthermore helps us keep our quality at the highest level and effectively put in practice our Warranty according to our company's Values.

CERTIFICATIONS

ENERGY PLUS
THE REVOLUTION IN LED LIGHTING

GENERAL INFORMATION

The success of Energy Plus is the result of continuous research and emphasis on quality in every step of the production process. Our organization includes trained professionals in the fields of Design, Production and Marketing, in order to provide excellent service to our Clients.

Our raw materials consist of top-quality components and materials, selected in accordance with the most stringent specifications and based on international standards, in order to meet the demands of the international market.

ENEC (EUROPEAN NORMS ELECTRICAL CERTIFICATION) MARK

This is an internationally recognized Quality Mark issued in Europe by selected certification bodies, which use approved and certified laboratories that carry out highly demanding tests. All bodies that issue the ENEC Quality Mark are coordinated by the CEN / CENELEC Joint European Standards Institution, seated in Brussels.

The ENEC Quality Mark certifies that all necessary electrotechnical testing by independent third party bodies (test laboratories) have been carried out and that a certificate of conformity with European Standards for lighting products and parts or other electrical equipment has been issued.

Consumers are in a position, drawing on the ENEC Quality Mark, to choose higher quality lighting products for their needs that are safer and have superior technical characteristics.

RoHS DIRECTIVE

RoHS COMPLIANT

The RoHS Directive took effect on the 1 st of July 2006, it amends the Waste Electrical and Electronic Equipment Directive (WEEE) 2002/96/EC aiming to protect health and environment through the prohibition of using specific hazardous substances in electric and electronic appliances.

ISO 9001

ISO 9001 is the internationally recognized standard for the quality management of businesses. It applies to the processes that create and control the products and services an organization supplies. It prescribes systematic control of activities to ensure that the needs and expectations of customers are met. It is designed and intended to apply to virtually any product or service, made by any process anywhere in the world.

ISO 14001

ISO 14001 is the internationally recognized standard for the environmental management of businesses. It prescribes controls for those activities that have an effect on the environment. These include the use of natural resources, handling and treatment of waste and energy consumption.

OHSAS 18001

Registration to OHSAS 18001 by an independent, third party, certification body demonstrates a commitment to implement, maintain and improve the way in which you manage your Health and Safety system. Organizations registered to OHSAS 18001 can be more confident about meeting the requirements of H & S legislation.

HIGH MAST LIGHTING

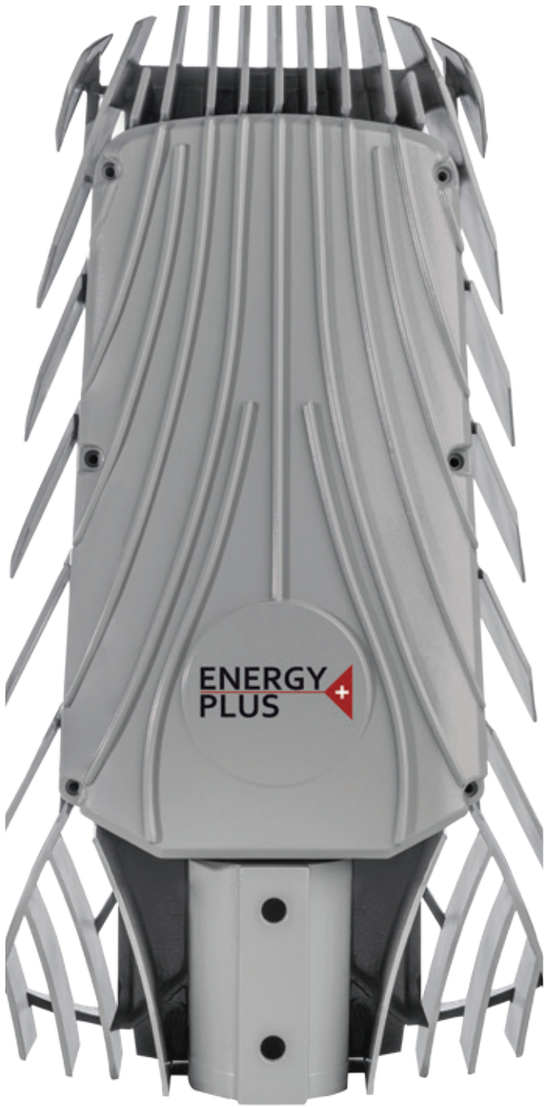
ENERGY PLUS
THE REVOLUTION IN LED LIGHTING

EN 31 | CE | RoHS COMPLIANT | ME IQNet EN ISO 9001 EN ISO 14001 OHSAS 18001 | LM 80 | IP 66 | IK 10 | 100.000 h | WARRANTY 5 YEARS

USAGE

These are intended for the lighting of:

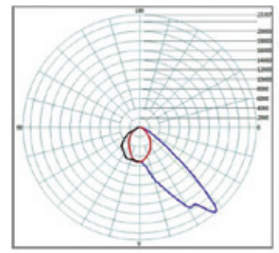
- Airports,
- Harbours,
- Open parkings,
- Sport areas,
- Toll roads,
- Industrial and large open areas



APL 150-660

Power	**150-660 W**
LED Chip Colour Temperature / CCT	**4000, 5000 K (3000 - 6500 upon request)**
LED Chip Rated Lifetime / L70	**> 100.000 h**
Luminous Efficacy	**> 130 lm / W**
Rated Tightness / Impact	**IP66 / IK10**
Mounting Data	**Arm D46-60 mm**

LIGHT DISTRIBUTION DIAGRAM



STREET LIGHTING 75-150W

ENERGY PLUS
THE REVOLUTION IN LED LIGHTING

GENERAL INFORMATION

Our product family PLB 75 to 150 incorporates pioneering and innovative of world class design and includes luminaires with Power from 75W up to 150W.

The body of these luminaires is manufactured using a special aluminum alloy with high heat conductivity, is fully recyclable and conforms to EN1706. Its designing aspect is the optimal heat dissipation during operation.

It is equipped with special asymmetrical optics suitable for road lighting and can also be offered with other optics for a great variety of applications. The product's technical features meet the highest level of International Norms requirements and overcome the strictest technical demands.

STREET LIGHTING
75-150W

ENERGY PLUS
THE REVOLUTION IN LED LIGHTING

31 | CE | RoHS COMPLIANT | IQNet (EN ISO 9001 · EN ISO 14001 · OHSAS 18001) | LM 80 | IP 66 | IK 10 | 100.000 h | WARRANTY 5 YEARS

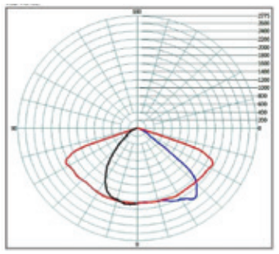
USAGE

These are intended for the lighting of motorways, national roads and large urban squares.
Also, for loading and unloading bays and parking areas for cars, trucks, trains, ships and apron areas.

PLB 75-150

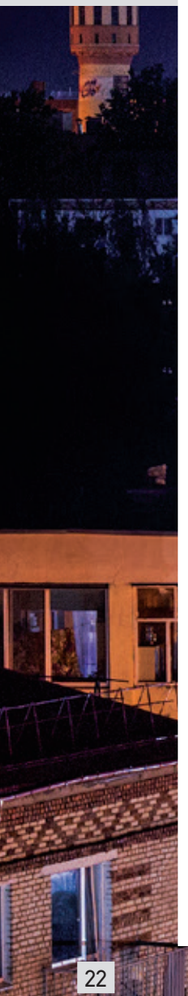
Power	**70-150 W**
LED Chip Colour Temperature / CCT	**4000, 5000 K (3000 - 6500 upon request)**
LED Chip Rated Lifetime / L70	**> 100.000 h**
Luminous Efficacy	**> 130 lm / W**
Rated Tightness / Impact	**IP66 / IK10**
Mounting Data	**Arm D46-60 mm**

LIGHT DISTRIBUTION DIAGRAM



STREET LIGHTING 30-70W

ENERGY PLUS
THE REVOLUTION IN LED LIGHTING



GENERAL INFORMATION

Our product family PLS 30 to 70 demonstrates its own innovative design, top performance and reliability - typical of all our products - and includes luminaires with Power from 30W up to 70W.

The body of these luminaires is manufactured using a special alloy with high heat conductivity, is fully recyclable and conforms to EN1706. Its designing aspect is the optimal heat dissipation during operation.

The product's technical features meet the highest level of International Norms requirements and overcome the strictest technical demands.

STREET LIGHTING
30-70W

ENERGY PLUS
THE REVOLUTION IN LED LIGHTING

31 | CE | RoHS COMPLIANT | EN ISO 9001 EN ISO 14001 OHSAS 18001 | LM 80 | IP 66 | IK 10 | 100.000 h | WARRANTY 5 YEARS

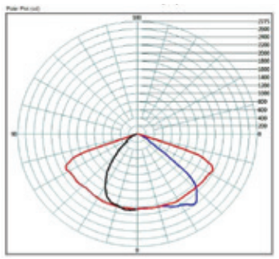
USAGE

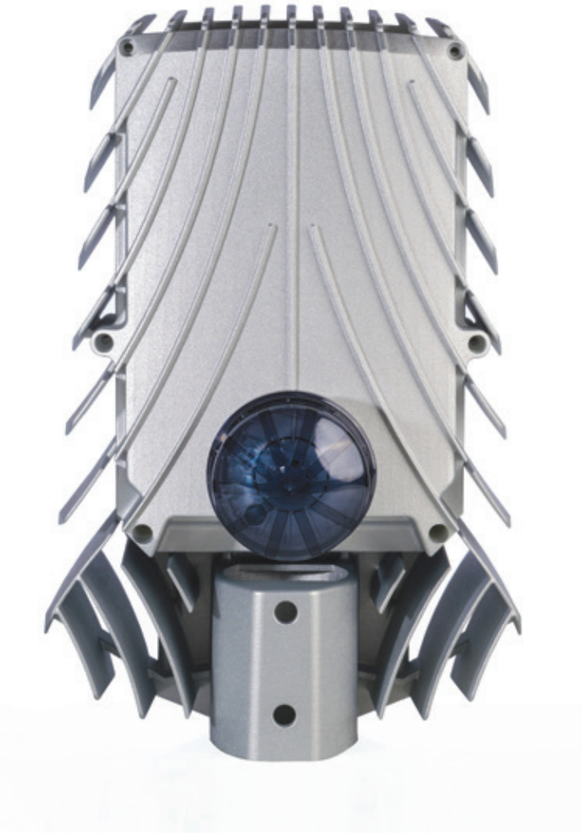
These are intended for the lighting of city streets, community & rural roads, residential areas, residential squares, parks, pedestrian zones and bicycle lanes. Also, for small outdoor parking areas, industrial buildings, parks and any other type of building as exterior perimeter security lighting.

PLS 30-70

Power	**30-70 W**
LED Chip Colour Temperature / CCT	**4000, 5000 K (3000 - 6500 upon request)**
LED Chip Rated Lifetime / L70	**> 100.000 h**
Luminous Efficacy	**> 130 lm / W**
Rated Tightness / Impact	**IP66 / IK10**
Mounting Data	**Arm D46-60 mm**

LIGHT DISTRIBUTION DIAGRAM





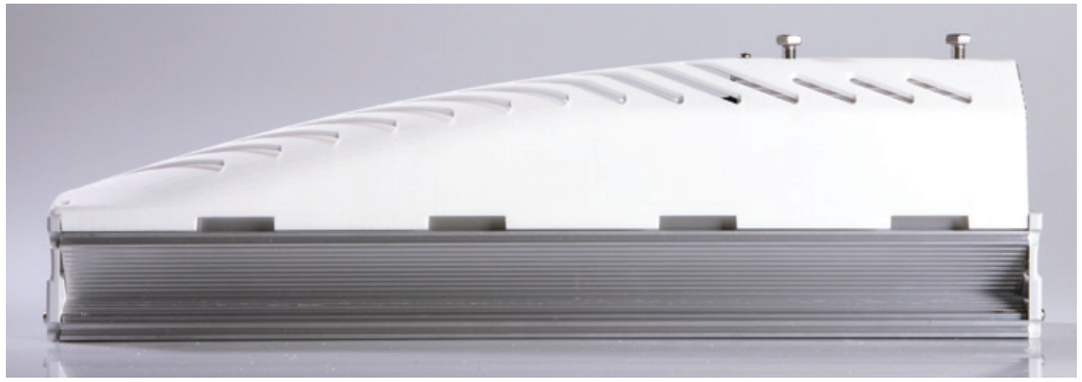
STREET LIGHTING

ENERGY PLUS
THE REVOLUTION IN LED LIGHTING

GENERAL INFORMATION

Our product family STREET 30 to 70 demonstrates its own innovative design, top performance and reliability - typical of all our products - and includes luminaires with Power from 30W up to 70W.

The body of these luminaires is modern, linear formed, appropriately designed for optimal heat dissipation during operation is manufactured using a special aluminum alloy with high heat conductivity, fully recyclable and conforms to EN15088. It is equipped with special asymmetrical optics suitable for road lighting and can also be offered with other optics for a great variety of applications.
The product's technical features meet the highest level of International Norms requirements and overcome the strictest technical demands.



LM 80 | IP 66 | IK 10 | 100.000 h | WARRANTY 5 YEARS

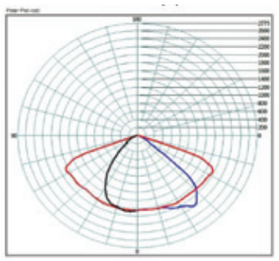
STR 30-70

Power	**30-70 W**
LED Chip Colour Temperature / CCT	**4000, 5000 K (3000 - 6500 upon request)**
LED Chip Rated Lifetime / L70	**> 100.000 h**
Luminous Efficacy	**> 130 lm / W**
Rated Tightness / Impact	**IP66 / IK10**
Mounting Data	**Arm D46-60 mm**

USAGE

Intended for the lighting of city streets, community & rural roads, residential areas, residential squares, parks, pedestrian precincts and bicycle lanes.
Also, for small outdoor parking areas, industrial buildings, parks and any other type of building as exterior perimeter security lighting.

LIGHT DISTRIBUTION DIAGRAM



UNIVERSAL LIGHTING

ENERGY PLUS
THE REVOLUTION IN LED LIGHTING

GENERAL INFORMATION

Our product family UNIVERSAL 30 to 140 is of general use with unlimited applications. It is characterized of its own innovative design, top performance and reliability - typical of all our products - and includes luminaires with Power from 30W up to 140W.

The body of these luminaires is modern, linear formed, appropriately designed for optimal heat dissipation during operation is manufactured using a special aluminum alloy with high heat conductivity, fully recyclable and conforms to EN15088. It is versatile due to the great variety of accessories and can also be offered with optics for an even greater variety of applications. The product's technical features meet the highest level of International Norms requirements and overcome the strictest technical demands.

UNV 30-70 (L: 0.5m)

Power	**30-70 W**
LED Chip Colour Temperature / CCT	**4000, 5000 K** (3000 - 6500 upon request)
LED Chip Rated Lifetime / L70	**> 100.000 h**
Luminous Efficacy	**> 130 lm / W**
Rated Tightness / Impact	**IP66 / IK10**
Mounting Data	**Arm D46-60 mm**

USAGE

These are intended for the lighting of commercial, major and smaller industrial, storage and sports installations, as well as department stores.

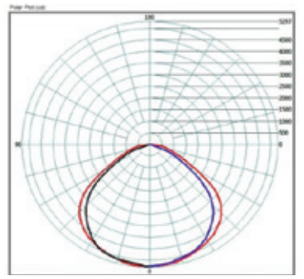
Also, for indoor parking areas, tunnels & bridges, as well as for special applications in architectural lighting (wash lighting, etc.)

EN 31 | CE | RoHS COMPLIANT | IQNet EN ISO 9001 EN ISO 14001 OHSAS 18001 | LM 80 | IP 66 | IK 10 | 100.000 h | WARRANTY 5 YEARS

UNV 60-140 (L: 1m)

Power	**60-140 W**
LED Chip Colour Temperature / CCT	**4000, 5000 K (3000 - 6500 upon request)**
LED Chip Rated Lifetime / L70	**> 100.000 h**
Luminous Efficacy	**> 130 lm / W**
Rated Tightness / Impact	**IP66 / IK10**
Mounting Data	**Arm D46-60 mm**

LIGHT DISTRIBUTION DIAGRAM



CULTIVATION LIGHTING

LM 80 | IP 66 | IK 10 | 100.000 h | WARRANTY 5 YEARS

GENERAL INFORMATION

Horticulture lighting for sustainable crop cultivation, all year round. It is possible to provide the exact light composition various plants need for ideal growth or to develop certain characteristics. Plants can be grown in a very space-saving manner and with considerably higher yields thanks to tailor-made lighting solutions. Tailor-made light recipes mean faster growth, bigger harvests, and higher quality plants.

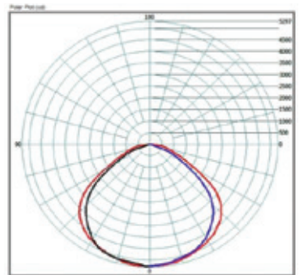
CLS 30-70 (L: 0.5m)

Power	**30-70 W**
LED Chip Colour Temperature / CCT	**4000, 5000 K** (3000 - 6500 upon request)
LED Chip Rated Lifetime / L70	**> 100.000 h**
Luminous Efficacy	**> 130 lm / W**
Rated Tightness / Impact	**IP66 / IK10**
Mounting Data	**Arm D46-60 mm**

CLS 60-140 (L: 1m)

Power	**60-140 W**
LED Chip Colour Temperature / CCT	**4000, 5000 K (3000 - 6500 upon request)**
LED Chip Rated Lifetime / L70	**> 100.000 h**
Luminous Efficacy	**> 130 lm / W**
Rated Tightness / Impact	**IP66 / IK10**
Mounting Data	**Arm D46-60 mm**

LIGHT DISTRIBUTION DIAGRAM



ROAD LIGHTING

ENERGY PLUS
THE REVOLUTION IN LED LIGHTING

ENEC 25 | CE | RoHS COMPLIANT | LM 80 LM 79 | IP 66 | IK 09 | ENERGY PLUS 5 YEARS WARRANTY

RLV 20A

Power	**20-40 W**
Color Temperature	**4000K (3000K/5000K/5700K upon request)**
Rating (Tightness – Impact)	**IP66 – IK09**
Certifications & Test Standards	**CE, ENEC, TUV-GS, CB,TM21, LM79, LM80**

RLV 20B

Power	**50-90 W**
Color Temperature	**4000K (3000K/5000K/5700K upon request)**
Rating (Tightness – Impact)	**IP66 – IK09**
Certifications & Test Standards	**CE, ENEC, TUV-GS, CB, TM21, LM79, LM80**

RLV 20C

Power	**100-120 W**
Color Temperature	**4000K (3000K/5000K/5700K upon request)**
Rating (Tightness – Impact)	**IP66 – IK09**
Certifications & Test Standards	**CE, ENEC, TUV-GS, CB, TM21, LM79, LM80**

RLV 20D

Power	**150-200 W**
Color Temperature	**4000K (3000K/5000K/5700K upon request)**
Rating (Tightness – Impact)	**IP66 – IK09**
Certifications & Test Standards	**CE, ENEC, TUV-GS, CB, TM21, LM79, LM80**

RLV 21A

Power	**10-40 W**
Color Temperature	**4000K (3000K/5000K/5700K upon request)**
Rating (Tightness – Impact)	**IP66 – IK09**
Certifications & Test Standards	**CE, ENEC, TUV-GS, CB,TM21, LM79, LM80**

RLV 21B

Power	**50-80 W**
Color Temperature	**4000K (3000K/5000K/5700K upon request)**
Rating (Tightness – Impact)	**IP66 – IK09**
Certifications & Test Standards	**CE, ENEC, TUV-GS, CB, TM21, LM79, LM80**

RLV 21C

Power	**90-150 W**
Color Temperature	**4000K (3000K/5000K/5700K upon request)**
Rating (Tightness – Impact)	**IP66 – IK09**
Certifications & Test Standards	**CE, ENEC, TUV-GS, CB, TM21, LM79, LM80**

RLV 21D

Power	**160-320 W**
Color Temperature	**4000K (3000K/5000K/5700K upon request)**
Rating (Tightness – Impact)	**IP66 – IK09**
Certifications & Test Standards	**CE, ENEC, TUV-GS, CB, TM21, LM79, LM80**

FLOOD LIGHTING

ENERGY PLUS
THE REVOLUTION IN LED LIGHTING

CE | RoHS COMPLIANT | LM 80 LM 79 | IP 66 | IK 08 | ENERGY PLUS 5 YEARS WARRANTY

GENERAL INFORMATION

FLS series is designed to meet the requirements of a wide range of floodlighting applications. It also includes all the necessary control features and interfaces to make it future-prof and even more efficient. FLS series is a highly competitive solution offering an outstanding lux/euro ration and energy savings of up to 50% (without the use of additional controls).

FLS 20C

Power	**250-400 W**
Color Temperature	**4000K (3000K/5000K/5700K upon request)**
Rating (Tightness – Impact)	**IP66 – IK08**
Certifications & Test Standards	**CE, CB, RoHS, TM21, LM79, LM80**

FLS 20D

Power	**500-650 W**
Color Temperature	**4000K (3000K/5000K/5700K upon request)**
Rating (Tightness – Impact)	**IP66 – IK08**
Certifications & Test Standards	**CE, CB, RoHS, TM21, LM79, LM80**

FLS 21

Power	**900-1200 W**
Color Temperature	**4000K (3000K/5000K/5700K upon request)**
Rating (Tightness – Impact)	**IP66 – IK08**
Certifications & Test Standards	**CE, CB, RoHS, TM21, LM79, LM80**

PARK LIGHTING

ENERGY PLUS
THE REVOLUTION IN LED LIGHTING

CE | RoHS COMPLIANT | LM 80 LM 79 | IP 65 | IK 08 | ENERGY PLUS WARRANTY

GPL 20 (A,B)

Power	**20-100 W**
Color Temperature	**4000K (3000K/5000K/5700K upon request)**
Rating (Tightness – Impact)	**IP65 – IK08**
Certifications & Test Standards	**CE, RoHS, LM80, LM79**

A

B

GENERAL INFORMATION

We offer a variety for special applications in Parks. They are design luminaires and they cover all the spectrum of designing needs, from modern to classical.
They also can be installed in any open space where human activity takes place, such as walkways, bicycle ways, squares, docks – waterfronts, historical city centers, playgrounds.

GPL 21

Power	**20-160 W**
Color Temperature	**4000K (3000K/5000K/5700K upon request)**
Rating (Tightness – Impact)	**IP65 – IK08**
Certifications & Test Standards	**CE, RoHS, LM80, LM79**

URBAN LIGHTING

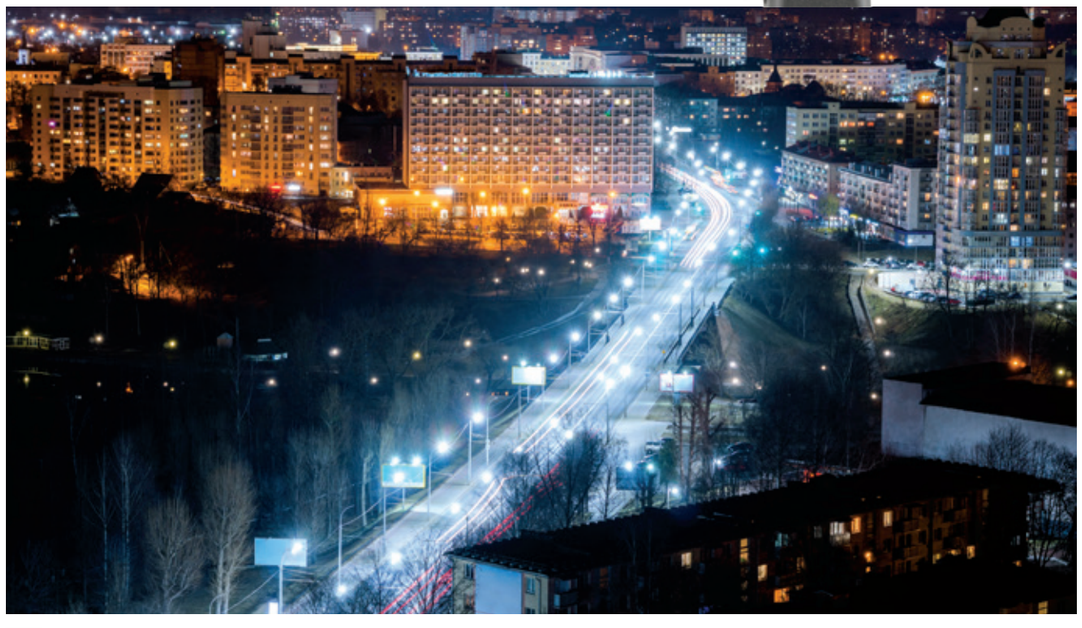
ENERGY PLUS
THE REVOLUTION IN LED LIGHTING

25 | CE | RoHS COMPLIANT | LM 80 LM 79 | IP 66 | IK 09 | ENERGY PLUS 5 YEAR WARRANTY

GENERAL INFORMATION

The product family ULV is the essence of urban luminaires. Apart from being an excellent LED Luminaire has also architectural value. Its smart design allows for versatile forms.

As a result can cover all possible requirements of architectural appearance and installation method. So it can be installed in urban streets, public places, parking places, modern city centers, in inhabited, working and entertainment areas. Virtually everywhere where a modern design of urban inspiration and also of high creativity and aesthetics is required.



ULV 20S (A,B,C,D)

∅ = 38 cm

Power	**20-50 W**
Color Temperature	**4000K (3000K/5000K/5700K upon request)**
Rating (Tightness – Impact)	**IP66 – IK08**
Certifications & Test Standards	**CE, ENEC, RoHS, LM80, LM79, TM21**

ULV 20 (A,B,C,D,E,F)

∅ = 52 cm

Power	**20-120 W**
Color Temperature	**4000K (3000K/5000K/5700K upon request)**
Rating (Tightness – Impact)	**IP66 – IK08**
Certifications & Test Standards	**CE, ENEC, RoHS, LM80, LM79, TM21**

A

B

C

D

E

F

LED BULBS

ENERGY PLUS
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CE | RoHS COMPLIANT | LM 80 LM 79 | ENERGY PLUS 5 YEAR WARRANTY

GENERAL INFORMATION

The CBRG3 product family is the perfect replacement of the traditional HID/MHL/HPS bulbs.
It has the variety of models to satisfy all needs.
The whole product family can be used in totally enclosed fixtures.
They have high efficiency (130lm/W) and also long lifetime.
It has the unique Dual Heat Dissipation technology for a warrantied 5 years lifetime.

CBRG3 D60

Power	**12 / 16 / 22 W**
Color Temperature	**3000 / 4000 / 5000 / 6000 K**
Base Type	**E26 / E27 / E39 / EX39 / E40**
Certifications & Test Standards	**CE, RoHS, LM80, LM79**

CBRG3 D95

Power	**27 / 36 / 45 / 54 / 75 W**
Color Temperature	**3000 / 4000 / 5000 / 6000 K**
Base Type	**E26 / E27 / E39 / EX39 / E40**
Certifications & Test Standards	**CE, RoHS, LM80, LM79**

CBRG3 D140

Power	**100 / 120 W**
Color Temperature	**3000 / 4000 / 5000 / 6000 K**
Base Type	**E39 / EX39 / E40**
Certifications & Test Standards	**CE, RoHS, LM80, LM79**

CENTRAL MANAGEMENT SYSTEM

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GENERAL INFORMATION

Energy Plus works with many companies specializing in remote management networking solutions and can implement complex and demanding projects. For more information please contact us. Representative examples of controllers and networking protocols we use are the following:

Nordic Automation Systems (NAS) is an industrial automation company creating sensor technologies, data analysis and monitoring solutions.

Flashnet offers street lighting remote management solution that ensures that the right amount of light is provided where and when needed.

Citintelly has developed a multifunctional and unique cloud-based Street Lighting Central Management System (CMS).

LUMINAIRE CONTROLLER (LC) ZHAGA

Luminaire Controller Zhaga 18 is a remote-control device for LED luminaires equipped with a Zhaga book 18 compliant receptacle socket. The device is controlled through DALI interface and is designed to work with DALI-2 systems.

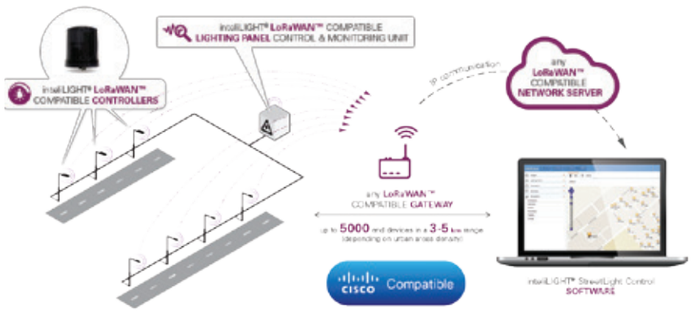
LUMINAIRE CONTROLLER (LC) NEMA

Luminaire Controller NEMA is a remote device for LED luminaires equipped with ANSI C136.41 NEMA receptacle socket. The luminaire is controlled through DALI or 0-10V analog control interfaces, while providing a reliable power interconnect with three robust twist lock contacts

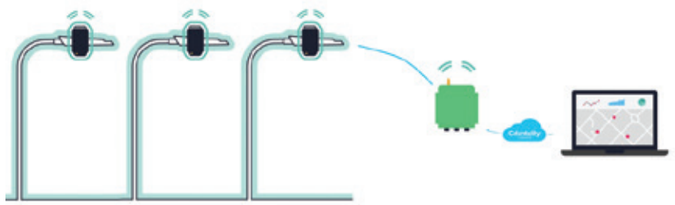
REMOTE MANAGEMENT NETWORKING PROTOCOLS

There are a lot of remote management networking protocols we can tailor to the needs of the project.

LoRaWAN™ is a Low Power Wide Area Network (LPWAN) specification that targets key requirements of the Internet of Things (IoT), such as secure bi-directional communication, achieving seamless interoperability among smart things without the need of complex local installation.



It is a perfect solution to manage large scale outdoor lighting networks (OLN) in order to control and monitor street lighting infrastructure while saving energy and reducing maintenance costs.
CMS is implemented by using PLC (Power Line Communication) over Etherenet or Wirelessly in 868MHz (LC mesh - network).
CMS is just the first step of a more sophisticated Smart City platform that is in development process.



LIGHTNING QUENCHERS

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GENERAL INFORMATION

A unique lightning protection solution for overhead lines.

Lightning activity is one of the most significant threat for overhead power lines. We are able to mitigate this hazardous phenomenon using suitable protection solutions.

Protect overhead lines against direct and indirect lightning strikes, thus helping to prevent breakage of conductors, insulators and power outages. Due to their operating principle, lightning quencher devices do not require any special grounding (e.g. a ground lead). Therefore, these devices are especially efficient in areas with high soil resistivity.

LQ 20i

Nominal voltage	**20 kV**
Maximum prospective fault current	**1.5 kA**
Air gap	**70 ± 10 mm**
50% sparkover voltage	**140 kV**
Power frequency withstand voltage (Wet)	**30 kV**
Power frequency withstand voltage (Dry)	**40 kV**
Lightning discharge capability	**2.4 C**
High current impulse	**65 kA**
Weight	**0.45 kg**

Installation

ADVANTAGES

- Highest voltage for equipment, kV
- Protects from Induced Overvoltage
- No maintenance is required

LQ 10d

Nominal voltage	**10 kV**
Maximum prospective fault current	**5.0 kA**
Air gap	**50 ± 10 mm**
50% sparkover voltage	**120 kV**
Power frequency withstand voltage (Wet)	**20 kV**
Power frequency withstand voltage (Dry)	**30 kV**
Lightning discharge capability	**2.8 C**
High current impulse	**65 kA**
Weight	**1.10 kg**

Installation

ADVANTAGES

- Protects from Direct Lightning Strike
- Protects from Induced Overvoltage
- Protects from Back Flashover
- No maintenance is required

LQ 20dc

Nominal voltage	**20 kV**
Maximum prospective fault current	**5.0 kA**
Air gap	**70 ± 10 mm**
50% sparkover voltage	**160 kV**
Power frequency withstand voltage (Wet)	**40 kV**
Power frequency withstand voltage (Dry)	**50 kV**
Lightning discharge capability	**2.8 C**
High current impulse	**65 kA**
Weight	**2.60 kg**

Installation

ADVANTAGES

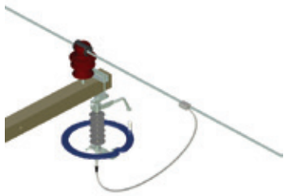
- Protects from Direct Lightning Strike
- Protects from Induced Overvoltage
- Protects from Back Flashover
- No maintenance is required

NEW PRODUCTS AVAILABLE FROM JULY 2020!

LQ 24d

Nominal voltage	**20 kV**
Maximum prospective fault current	**5.0 kA**
Air gap	**70 ± 10 mm**
50% sparkover voltage	**140 kV**
Power frequency withstand voltage (Wet)	**40 kV**
Power frequency withstand voltage (Dry)	**50 kV**
Lightning discharge capability	**2.8 C**
High current impulse	**65 kA**
Weight	**2.80 kg**

Installation



ADVANTAGES

- Protects from Direct Lightning Strike
- Protects from Induced Overvoltage
- Protects from Back Flashover
- No maintenance is required

ACCESSORIES

GENERAL INFORMATION

We deliver a variety of support and mounting accessories either INOX, either powder coated (RAL & special) and our covers in many colours.

APPLICATIONS

RAL COLORS (AVAILABLE ON REQUEST)

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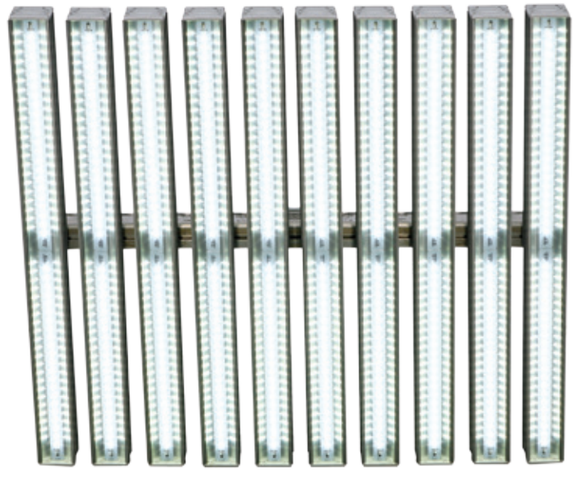
APPLICATIONS

We deliver a variety of support and mounting accessories of aluminum, iron, INOX for special applications, forming our luminaires in arrays of up to 10 pieces (1400W). Also simpler support accessories of aluminum, INOX as well as our covers in a variety of sorts and colours.



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