

Solar Lighting
Product
Catalogue
2024





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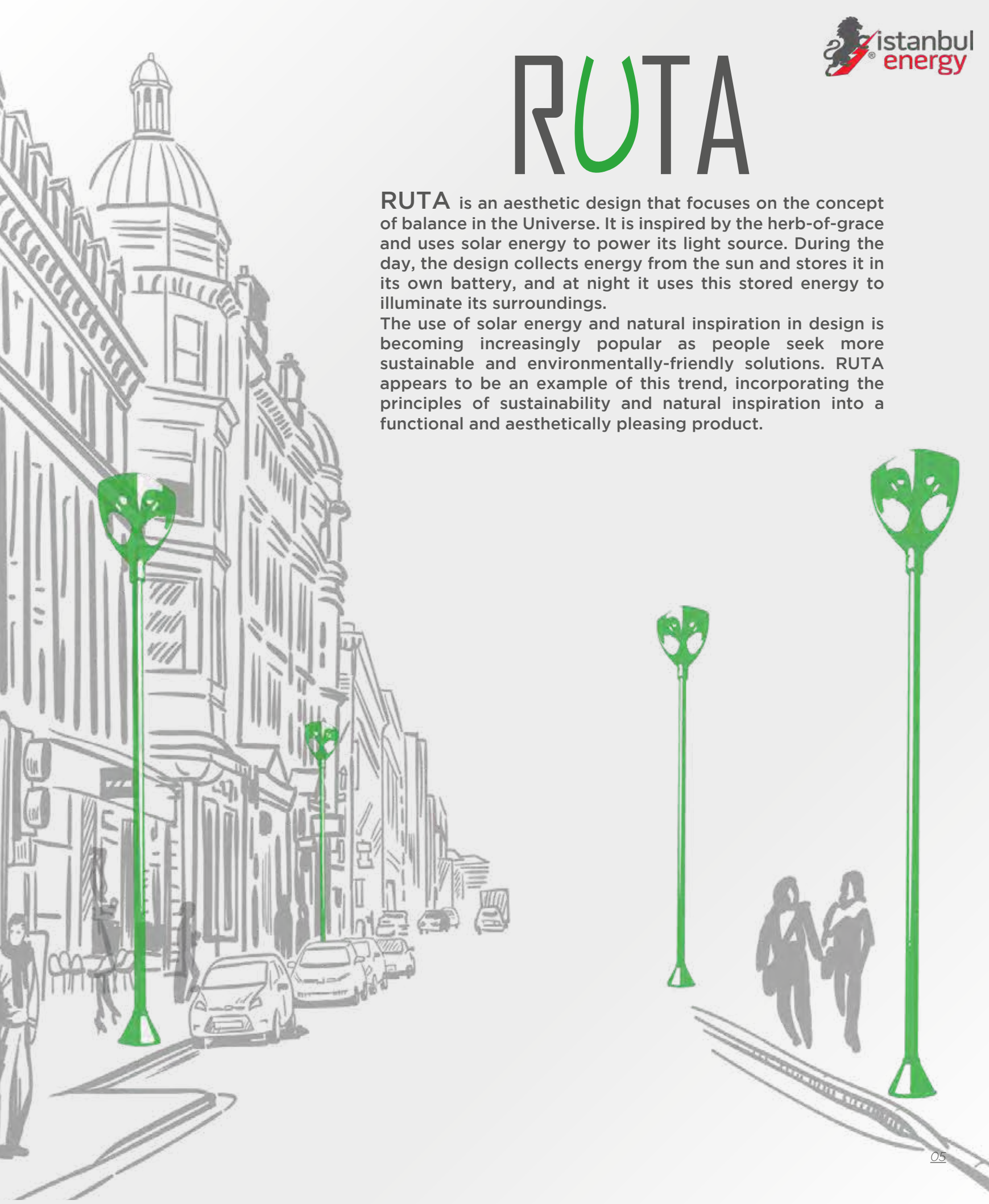




RUTA

RUTA is an aesthetic design that focuses on the concept of balance in the Universe. It is inspired by the herb-of-grace and uses solar energy to power its light source. During the day, the design collects energy from the sun and stores it in its own battery, and at night it uses this stored energy to illuminate its surroundings.

The use of solar energy and natural inspiration in design is becoming increasingly popular as people seek more sustainable and environmentally-friendly solutions. RUTA appears to be an example of this trend, incorporating the principles of sustainability and natural inspiration into a functional and aesthetically pleasing product.



ROTA



ruta

Ruta

Mecanical Details

- Aluminium body
- Stainless steel screws
- Silicone gasket
- In compliance with European Standards EN-60598
- Mechanical impact resistance IK 08
- Protection Grade IP66
- Electrical installation Class I
- Electrostatic polyester powder coating with high thermal conductivity

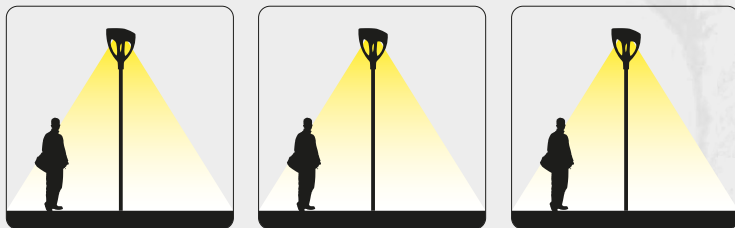
Ruta

Electrical Details

Ruta Lighting Details	Led	4000k
One way (4 or 6mt.)	15W	2250lm.
Double way (4 or 6mt.)	20W	3000lm.
Triple way (4 or 6mt.)	24W	3600lm.
Four way (4 or 6mt.)	28W	4200lm.

Ruta Solar Details	Solar P.	Battery	Charger
One way (4 or 6mt.)	42W	LiFeP04 360wH	MPPT
Double way (4 or 6mt.)	42W	LiFeP04 480wH	MPPT
Triple way (4 or 6mt.)	42W	LiFeP04 590wH	MPPT
Four way (4 or 6mt.)	42W	LiFeP04 700wH	MPPT

Dimming



10h 100%

13h 50%

Hybrid / Dim



Charging

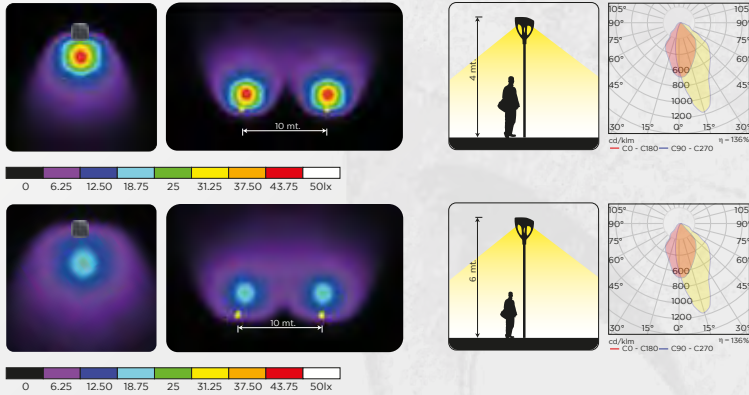
Technical Detail



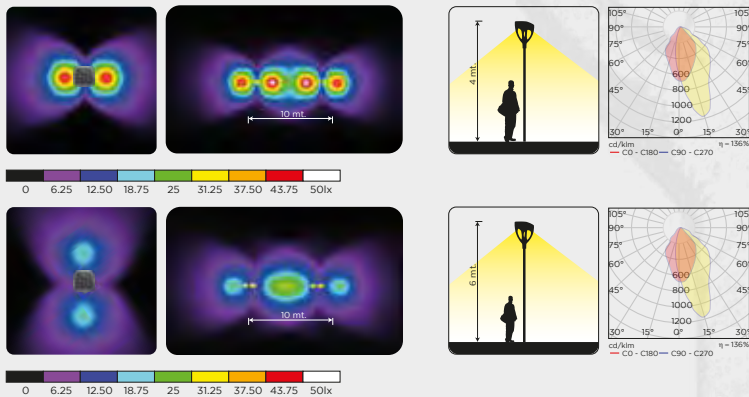
ROUTA

Optical Details

Ruta One Way Lighting

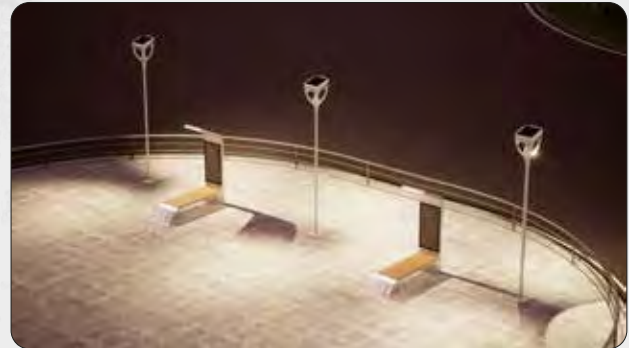
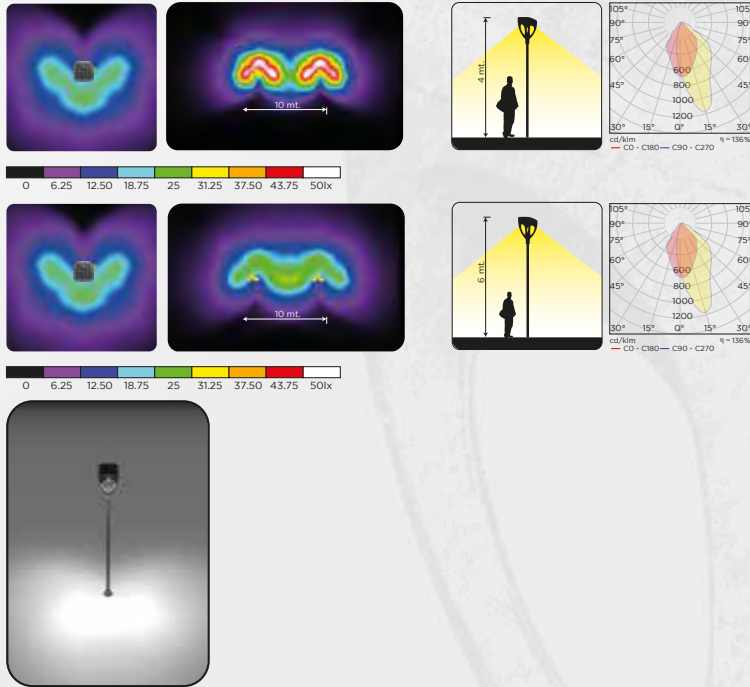


Ruta Double Way Lighting

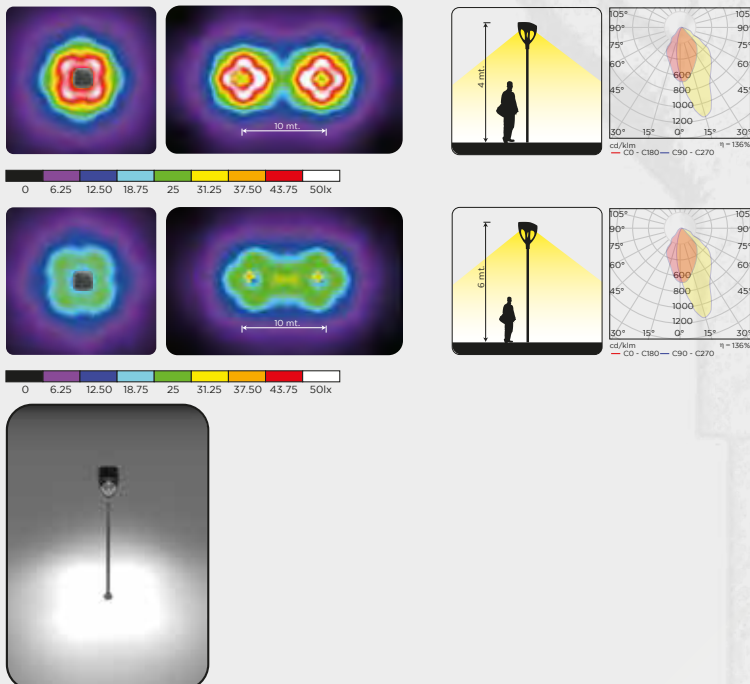


ROUTA

Ruta Three-way Lighting



Ruta Four Way Lighting



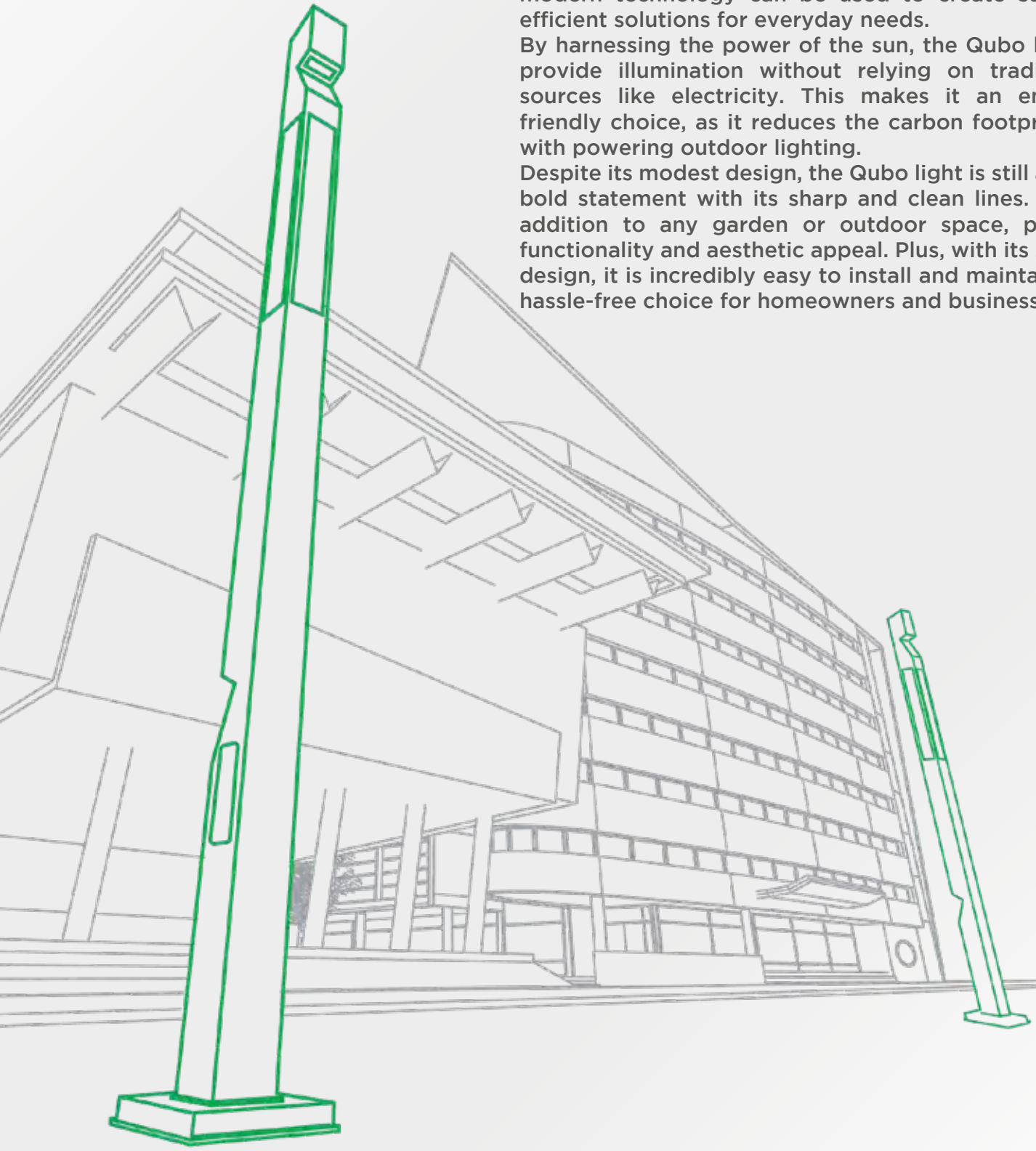


Qubo

Qubo solar-powered outdoor light is a great example of how modern technology can be used to create sustainable and efficient solutions for everyday needs.

By harnessing the power of the sun, the Qubo light is able to provide illumination without relying on traditional energy sources like electricity. This makes it an environmentally friendly choice, as it reduces the carbon footprint associated with powering outdoor lighting.

Despite its modest design, the Qubo light is still able to make a bold statement with its sharp and clean lines. It is a perfect addition to any garden or outdoor space, providing both functionality and aesthetic appeal. Plus, with its solar-powered design, it is incredibly easy to install and maintain, making it a hassle-free choice for homeowners and businesses alike.



Qubo

Qubo Mechanical Details

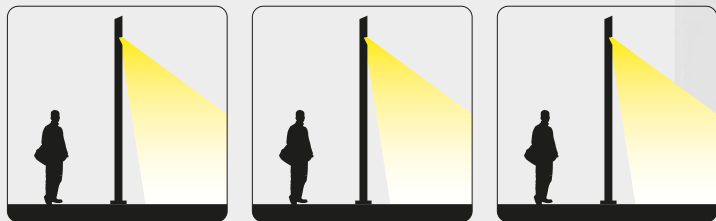
- Aluminium profile body
- Stainless steel screws
- Silicone gasket
- In compliance with European Standards EN-60598
- Mechanical impact resistance IK 08
- Protection Grade IP66
- Electrical installation Class I
- Electrostatic polyester powder coating with high thermal conductivity

Qubo Electrical Details

Qubo Lighting Details		Led	4000k
Single	(4mt.)	15W	2175lm.
Single+Bollard	(4mt.)	15W+3W	2175lm.+435lm.
Double	(6mt.)	20W+15W	3900lm.+2175lm.

Qubo Solar Details		Square Solar P.	Battery	Charger
Single	(4mt.)	160W	LiFePO4 310wH	MPPT
Single+Bollard	(4mt.)	192W	LiFePO4 310wH	MPPT
Double	(6mt.)	2x160W	LiFePO4 2x310wH	MPPT

Dimming



6h 100%

6h 50%

Hybrid & AC/DC



Charging

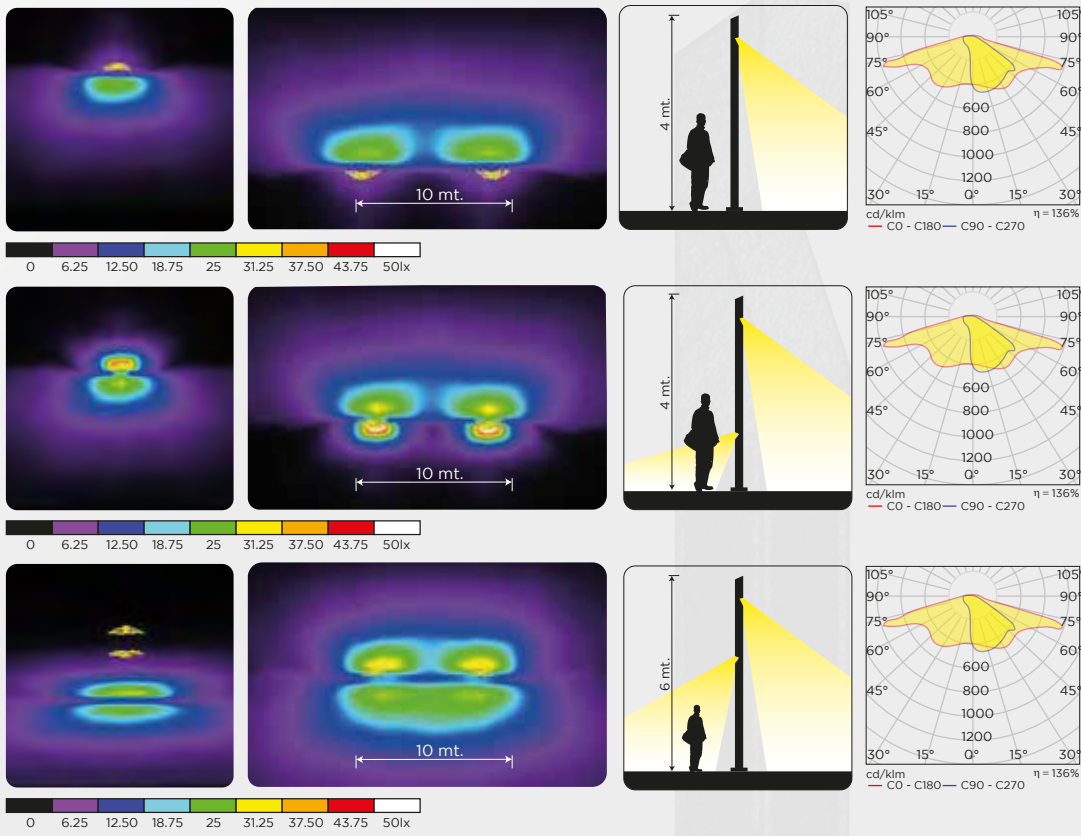


Single&Bollard

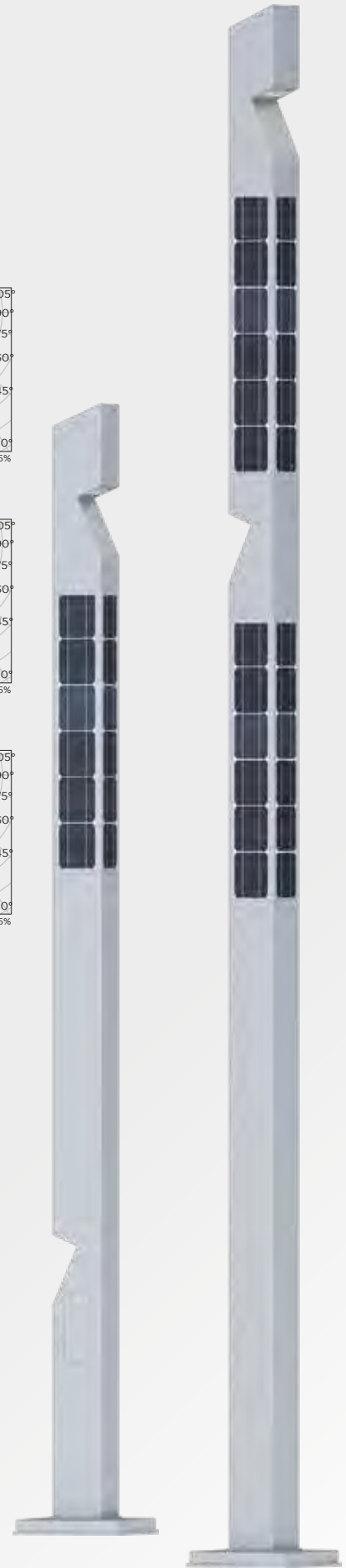
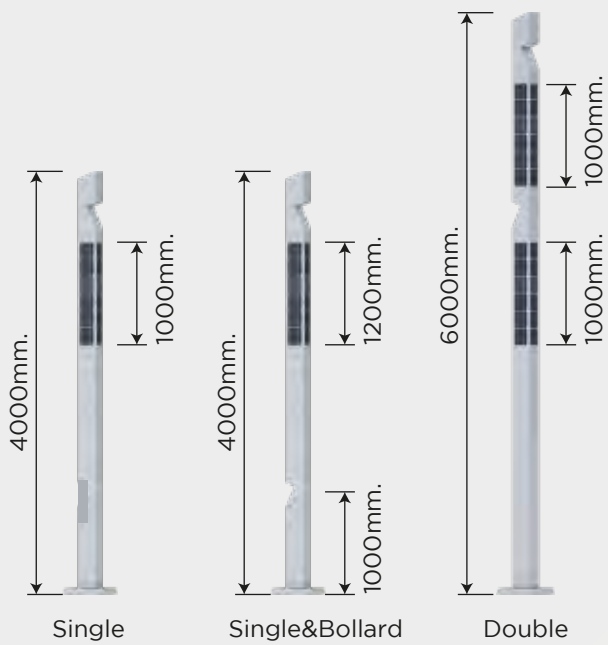


Qubo

Optical Details



Technical Details



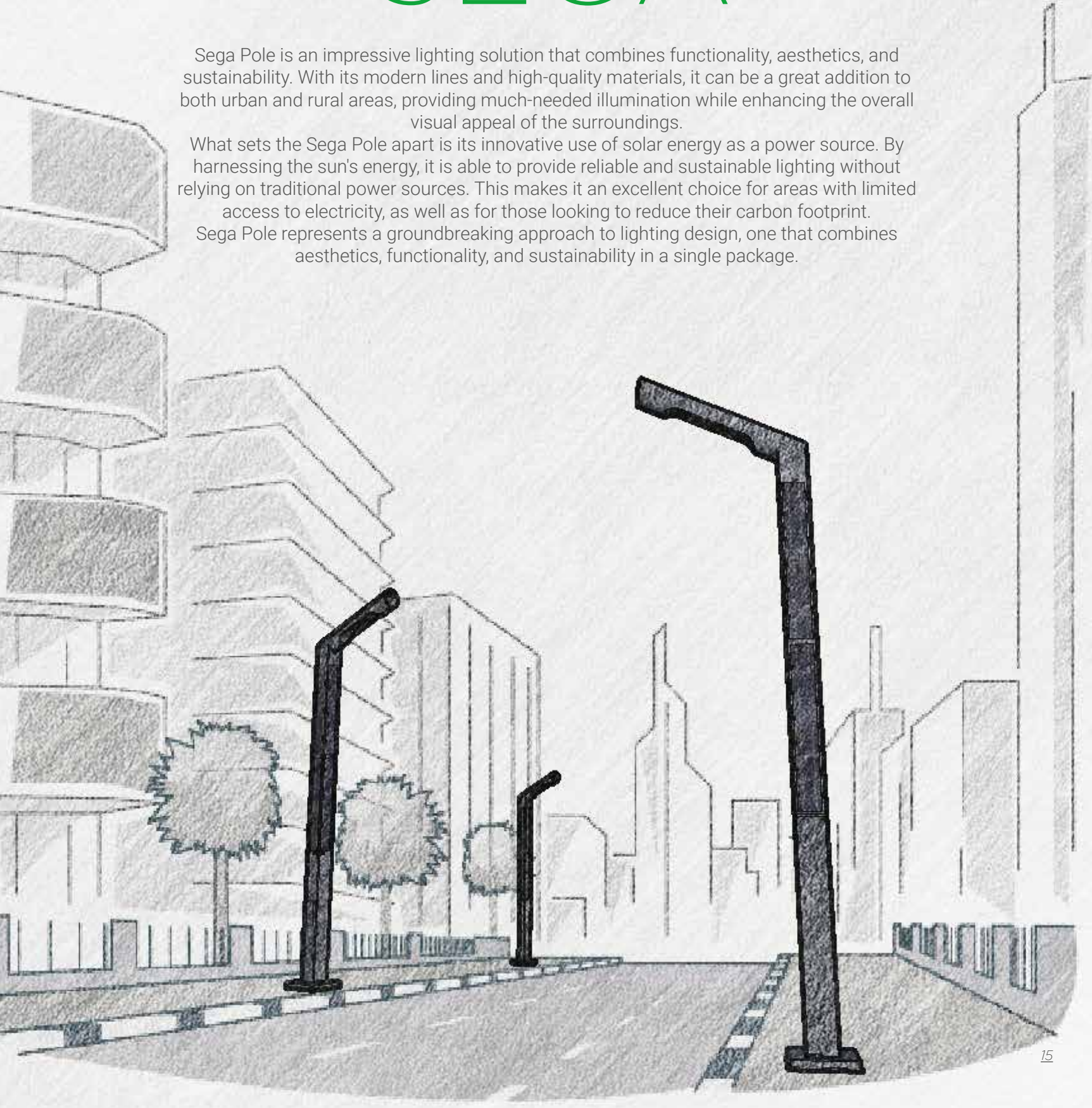


SEGA

Sega Pole is an impressive lighting solution that combines functionality, aesthetics, and sustainability. With its modern lines and high-quality materials, it can be a great addition to both urban and rural areas, providing much-needed illumination while enhancing the overall visual appeal of the surroundings.

What sets the Sega Pole apart is its innovative use of solar energy as a power source. By harnessing the sun's energy, it is able to provide reliable and sustainable lighting without relying on traditional power sources. This makes it an excellent choice for areas with limited access to electricity, as well as for those looking to reduce their carbon footprint.

Sega Pole represents a groundbreaking approach to lighting design, one that combines aesthetics, functionality, and sustainability in a single package.



SEGA

Sega

Mecanical Details

- Aluminium body and accessories
- Stainless steel screws
- Silicone gasket
- In compliance with European Standards EN-60598
- Mechanical impact resistance IK 08
- Protection Grade IP66
- Electrical installation Class I
- Electrostatic polyester powder coating with high thermal conductivity

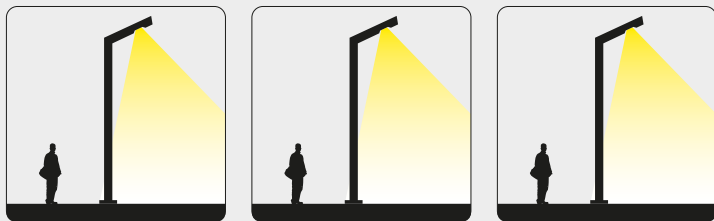
Sega

Electrical Details

Metro Lighting Details		Led	4000k
Single	(5mt.)	40W	5800lm.
Double	(8mt.)	2x50W	2x7250lm.

Metro Solar Details		Square Solar P.	Battery	Charger
Single	(5mt.)	2x160W	LiFeP04 720wH	MPPT
Double	(8mt.)	5x160W	LiFeP04 1850wH	MPPT

Dimming



6h 100%

6h 50%

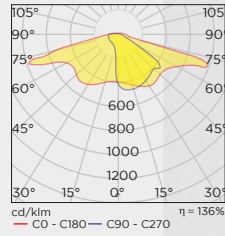
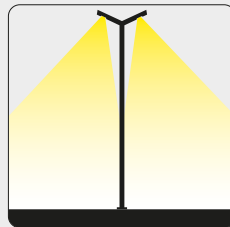
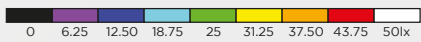
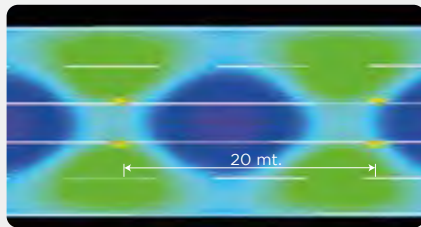
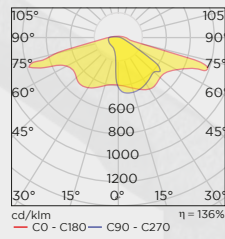
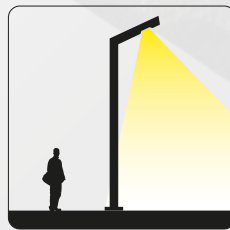
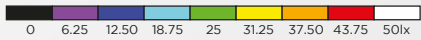
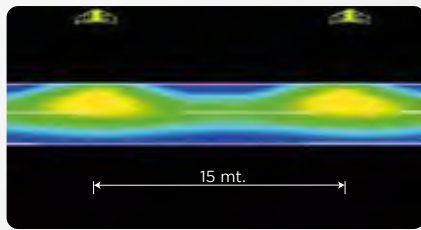
Hybrid & AC/DC



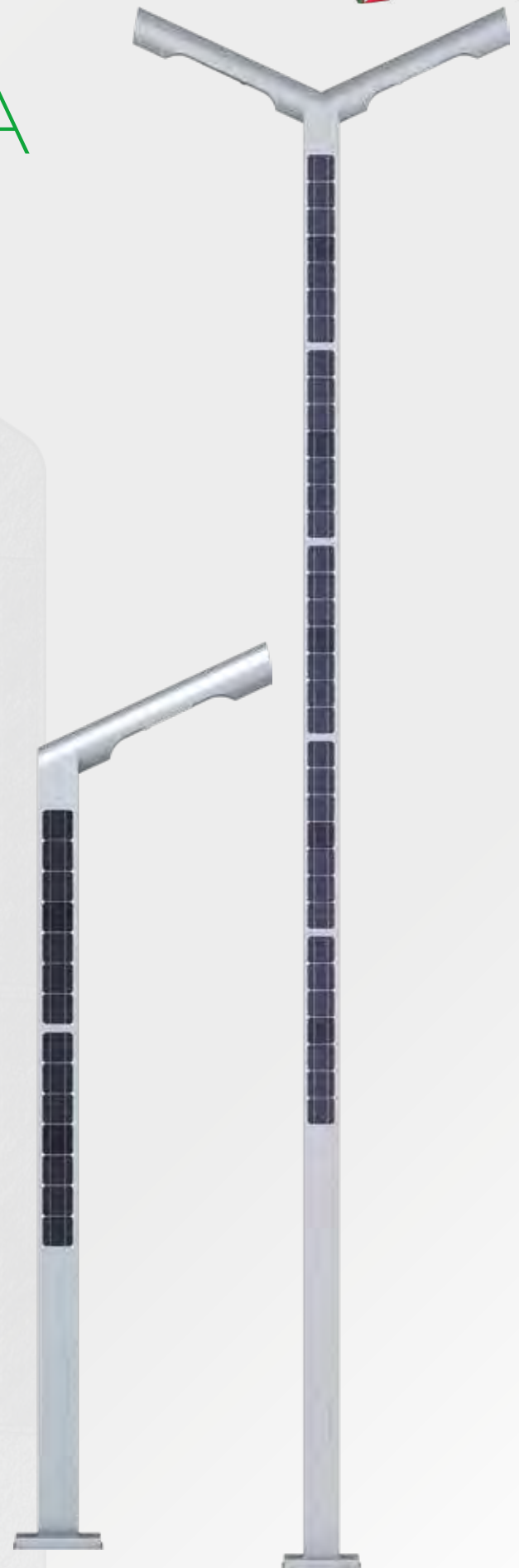
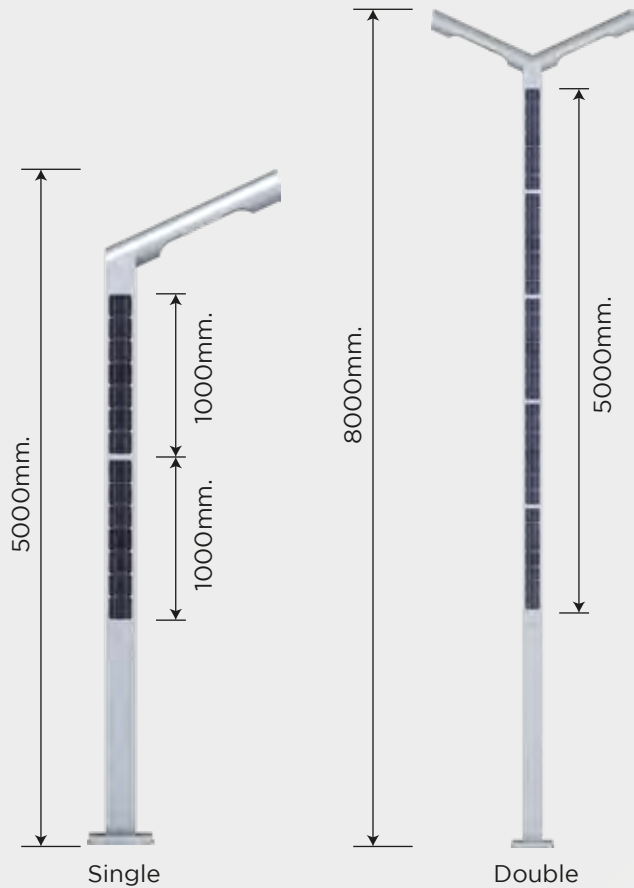
Charging

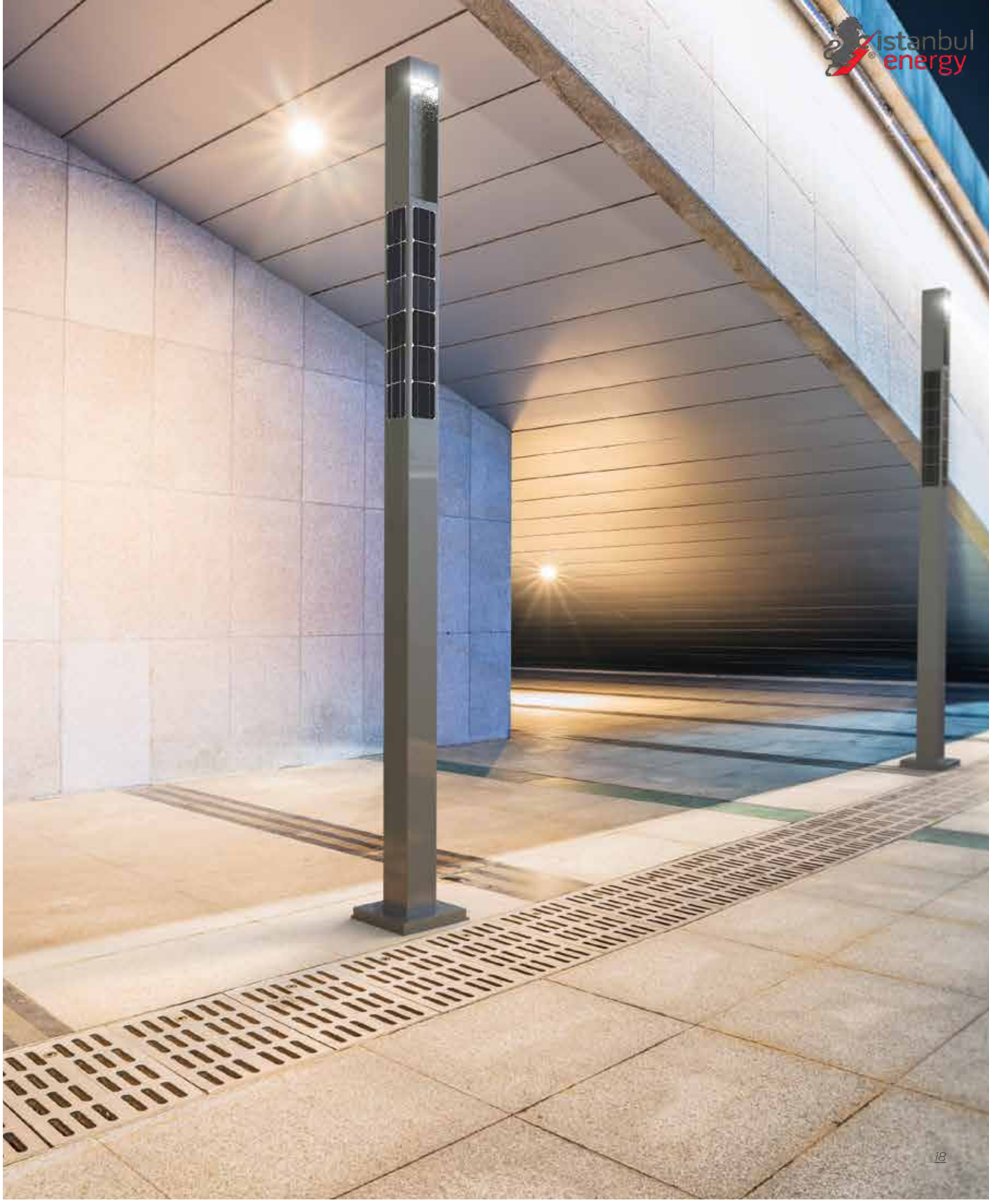
SEGA

Optical Details



Technical Details





METRO

Metro Pole a modern and sustainable lighting solution that can be used both in urban settings and in gardens. By being powered by the sun, it offers a reliable and eco-friendly alternative to traditional lighting systems.

With its updated design, the Metro Pole is able to make a bold statement with its sharp and clean lines, adding to the visual appeal of the surroundings. Its modest design, however, means that it does not overwhelm the space it occupies, making it a versatile choice for a wide range of settings.

Metro Pole is a great example of how sustainable technology can be used to create innovative and functional lighting solutions that meet the needs of modern cities and communities.



METRO

Metro

Mecanical Details

- Aluminium profile body
- Stainless steel screws
- Silicone gasket
- In compliance with European Standards EN-60598
- Mechanical impact resistance IK 08
- Protection Grade IP66
- Electrical installation Class I
- Electrostatic polyester powder coating with high thermal conductivity

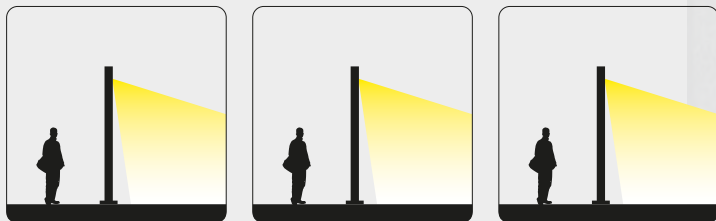
Metro

Electrical Details

Metro Lighting Details		Led	4000k
Single	(4mt.)	15W	2175lm.
Single+Bollard	(4mt.)	15W+3W	2175lm.+435lm.
Double	(6mt.)	20W+15W	3900lm.+2175lm.

Metro Solar Details		Square Solar P.	Battery	Charger
Single	(4mt.)	160W	LiFeP04 310wH	MPPT
Single+Bollard	(4mt.)	192W	LiFeP04 310wH	MPPT
Double	(6mt.)	2x160W	LiFeP04 2x310wH	MPPT

Dimming



6h 100%

6h 50%

Hybrid & AC/DC



Charging

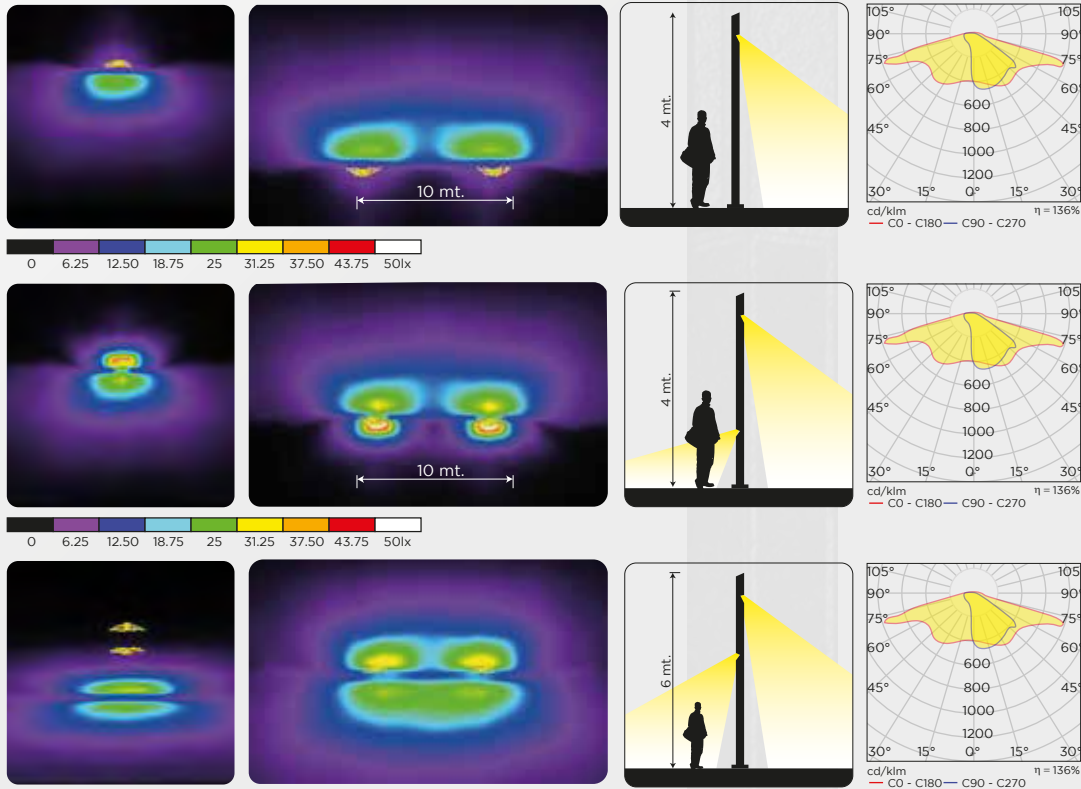


Single&Bollard

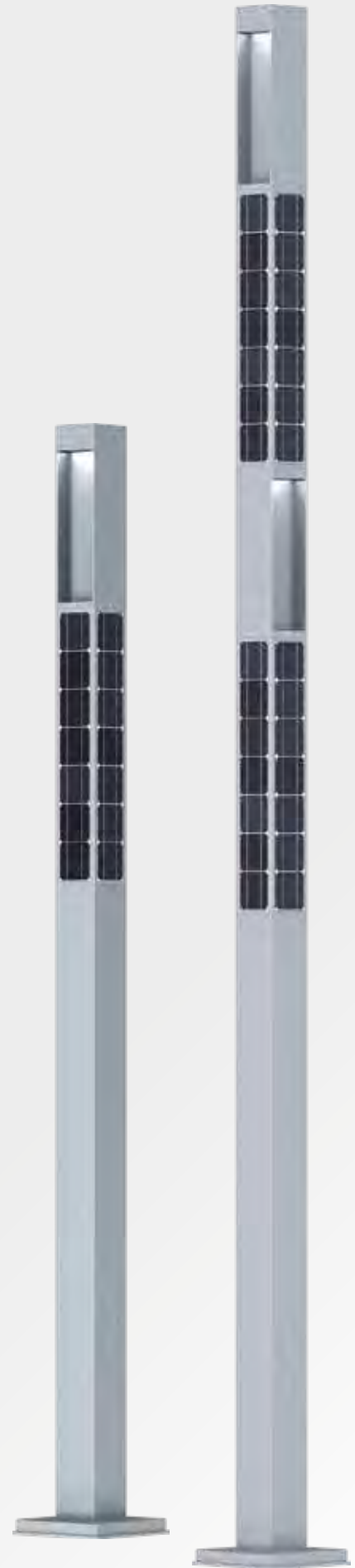
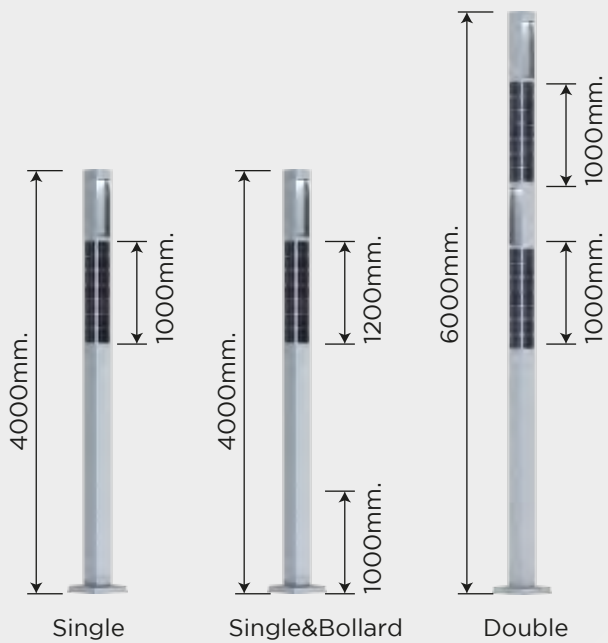


METRO

Optical Details



Technical Details





THOR

Thor Pole a robust and durable lighting solution that can bring both practicality and aesthetic appeal to cities. Its strong lines and hardy design make it a great choice for urban environments where it may be subject to wear and tear.

With its solar-powered design, the Thor Pole is able to provide reliable lighting without relying on traditional power sources. This makes it an eco-friendly and sustainable choice that can help to reduce the carbon footprint of cities and communities.

In addition to its practical benefits, the Thor Pole can also enhance the ambiance of the surrounding area. With bright and efficient lighting, it can create a welcoming and safe atmosphere for pedestrians and motorists alike. Its design can also be customized to suit different settings and preferences, allowing for a range of lighting solutions that cater to specific needs.



THOR

Thor Mechanical Details

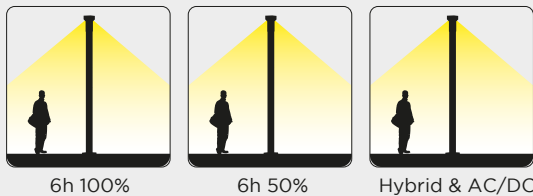
- Aluminium body and accessories
- Stainless steel screws
- Silicone gasket
- In compliance with European Standards EN-60598
- Mechanical impact resistance IK 08
- Protection Grade IP66
- Electrical installation Class I
- Electrostatic polyester powder coating with high thermal conductivity

Thor Electrical Details

Thor Lighting Details	Led	4000k
Single (5mt.)	4x10W	4x1450lm.

Thor Solar Details	Square Solar P.	Battery	Charger
Single (5mt.)	2x160W	LiFePO4 720wH	MPPT

Dimming

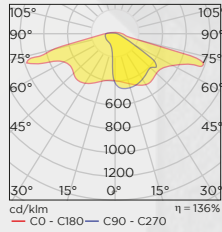
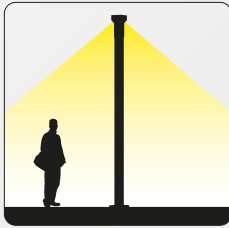
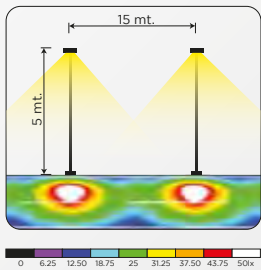


Charging

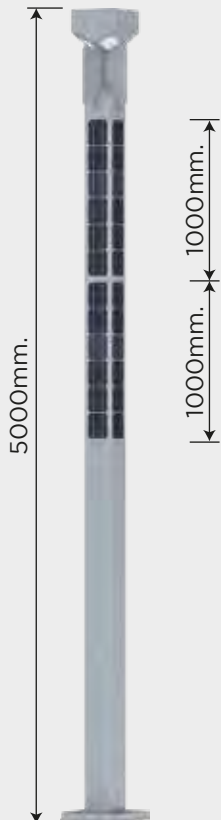


THOR

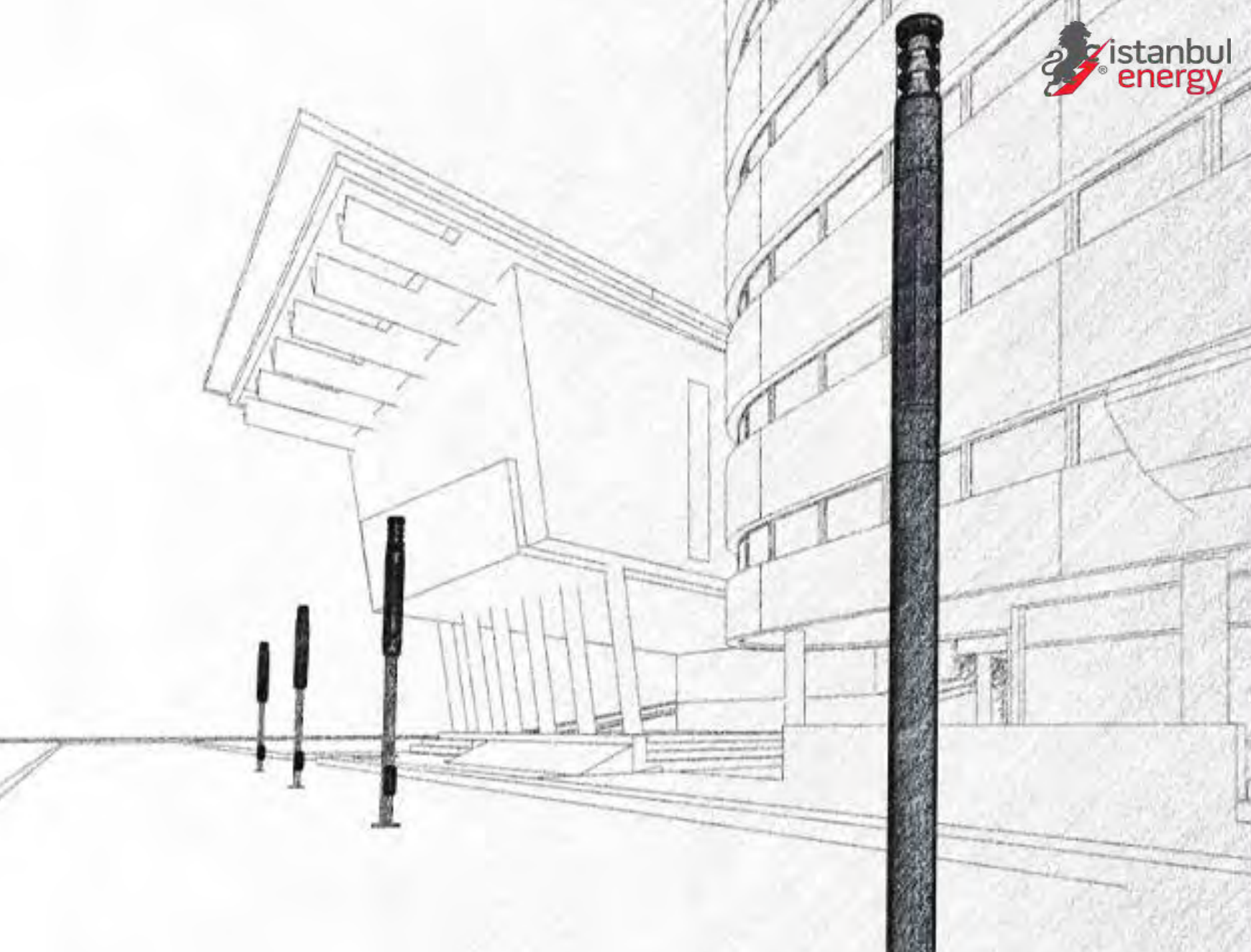
Optical Details



Technical Details







Theia

Theia Pole is a sustainable lighting solution that utilizes vertical solar LED lighting systems and Photovoltaic modules are integrated with the pole's structure and mounted vertically in a 360° arrangement.

This ensures maximum energy capture and storage throughout the day for night time illumination.

The system offers advantages over conventional solutions, including a more uniform and aesthetically pleasing lighting source.

The Theia Pole requires less installation space than solutions with horizontal solar panels.

It is suitable for use in a wide range of external application areas.

The Theia Pole represents a great example of how innovative technology can be used to create sustainable and efficient lighting solutions.

Theia

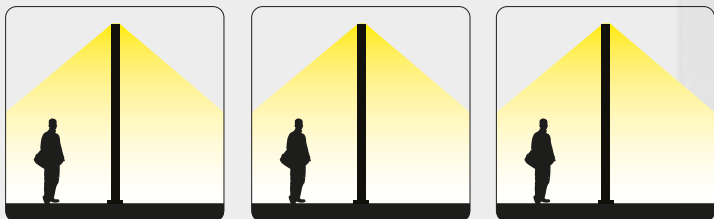
Theia Mechanical Details

- Aluminium body and accessories
- Stainless steel screws
- Silicone gasket
- In compliance with European Standards EN-60598
- Mechanical impact resistance IK 08
- Protection Grade IP66
- Electrical installation Class I
- Electrostatic polyester powder coating with high thermal conductivity

Theia Electrical Details

Theia Lighting Details	Led	4000k	
Single (4mt.)	15W	2175lm.	
Single (5mt.)	20W	2900lm.	
Single (6mt.)	30W	4350lm.	
Theia Solar Details	Hexagonal Solar P.	Battery	Charger
Single (4mt.)	100W	LiFePO4 310wH	MPPT
Single (5mt.)	140W	LiFePO4 480wH	MPPT
Single (6mt.)	200W	LiFePO4 620wH	MPPT

Dimming



6h 100%

6h 50%

Hybrid & AC/DC

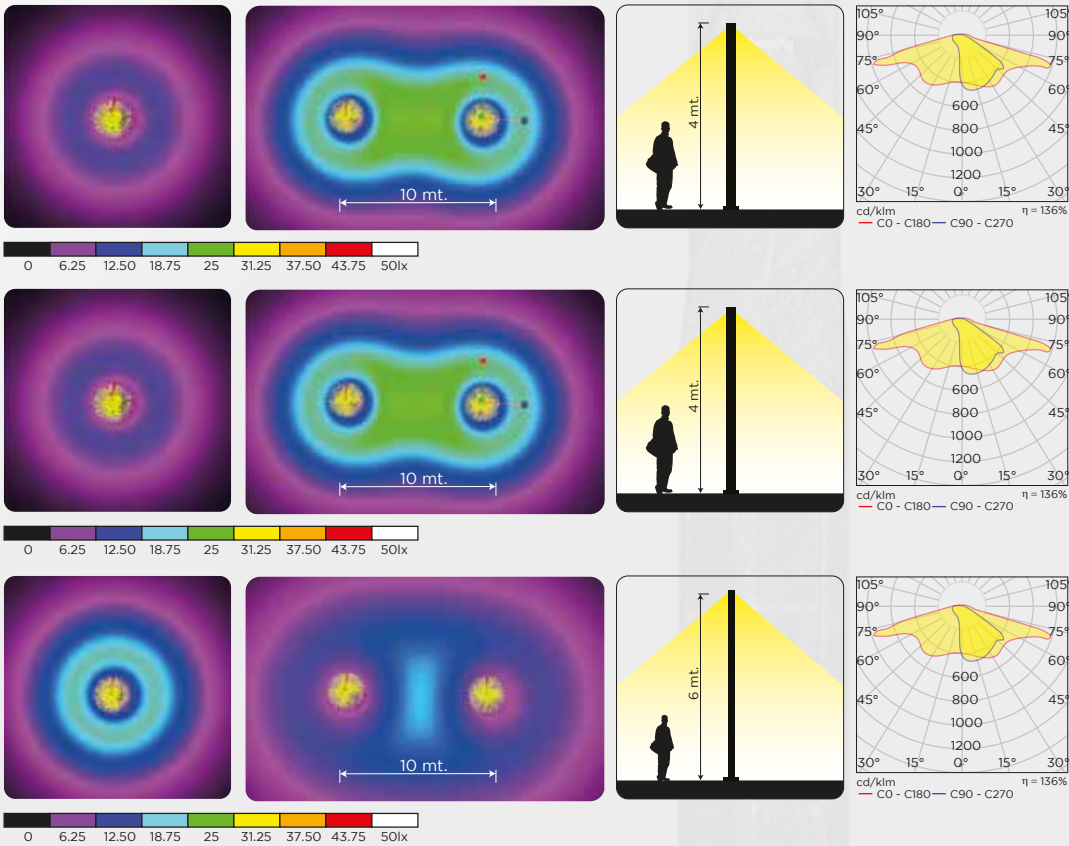


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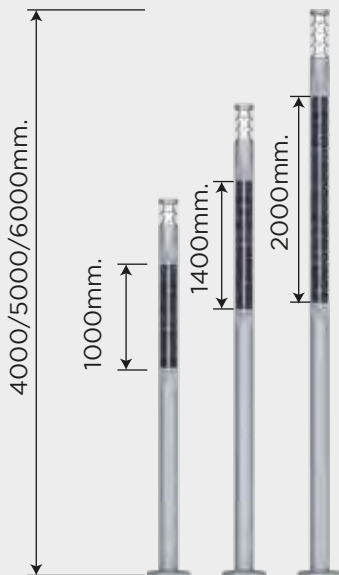


Theia

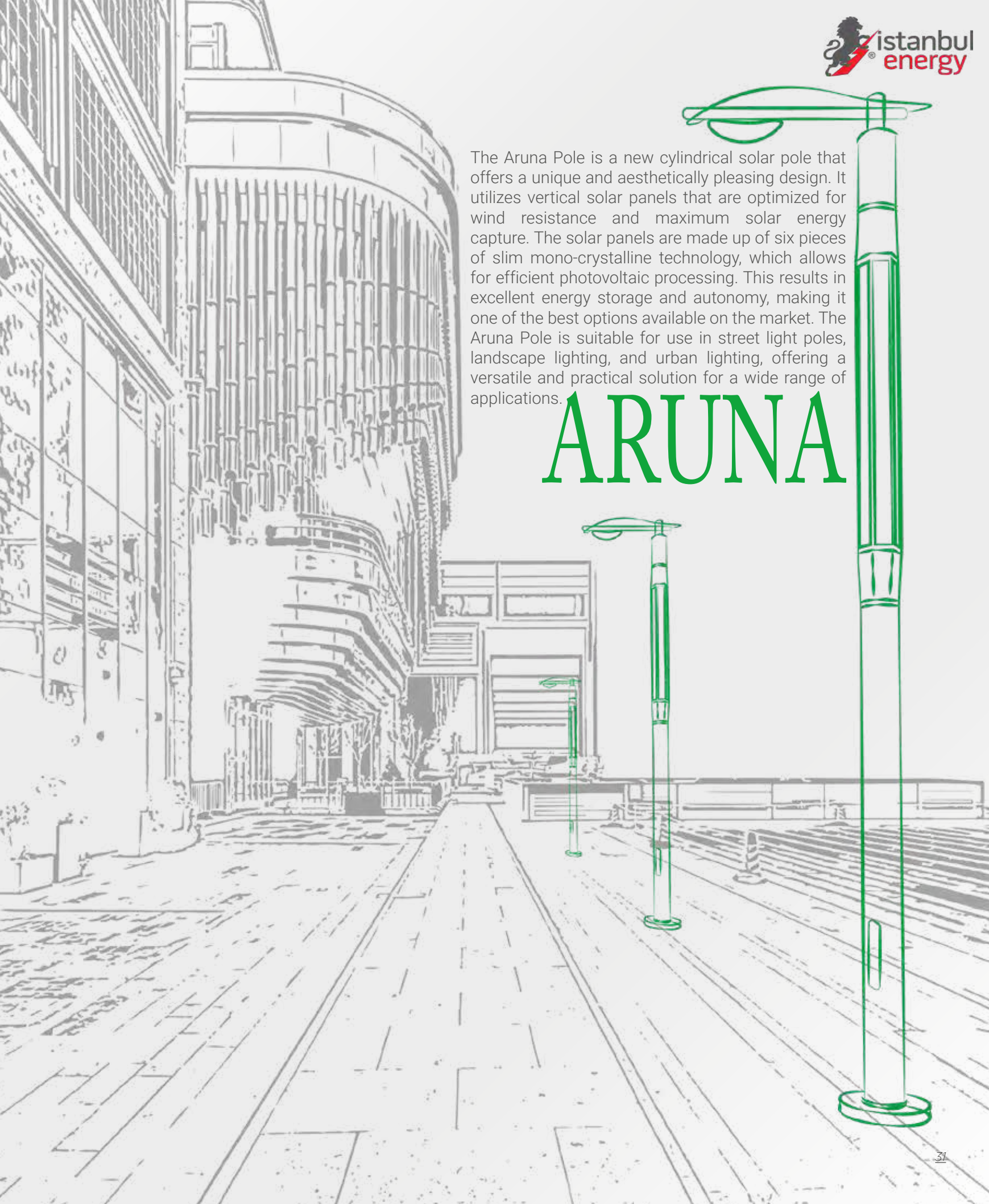
Optical Details



Technical Details







The Aruna Pole is a new cylindrical solar pole that offers a unique and aesthetically pleasing design. It utilizes vertical solar panels that are optimized for wind resistance and maximum solar energy capture. The solar panels are made up of six pieces of slim mono-crystalline technology, which allows for efficient photovoltaic processing. This results in excellent energy storage and autonomy, making it one of the best options available on the market. The Aruna Pole is suitable for use in street light poles, landscape lighting, and urban lighting, offering a versatile and practical solution for a wide range of applications.

ARUNA

ARUNA

Aruna Mechanical Details

- Aluminium body
- Stainless steel screws
- Silicone gasket
- In compliance with European Standards EN-60598
- Mechanical impact resistance IK 08
- Protection Grade IP66
- Electrical installation Class I
- Electrostatic polyester powder coating with high thermal conductivity

Aruna Electrical Details



30W (5mt.)

Solar light head	30W
Led power	30W
Luminous flux(lm)	>4,800lm
Power of solar module	200W
Hexagonal solar module	Q100 2pcs
LifePO4 battery	12.8V 307WH
Charge controller	MPPT
Pole height	5 meters
Warranty	5years



30W*2 (7mt.)

Solar light head	30Wx2
Led power	30Wx2
Luminous flux(lm)	>4,800lm
Power of solar module	280W
Hexagonal solar module	Q100 4pcs
LifePO4 battery	12.8V 307WHx2
Charge controller	MPPT
Pole height	7 meters
Warranty	5years



50W (6mt.)

Solar light head	50W
Led power	50W
Luminous flux(lm)	>8,800lm
Power of solar module	280W
Hexagonal solar module	Q140 2pcs
LifePO4 battery	12.8V 538WHx2
Charge controller	MPPT
Pole height	6 meters
Warranty	5years



80W*2 (12mt.)

Solar light head	80W
Led power	80W*2
Luminous flux(lm)	>12,800lm
Power of solar module	840W
Hexagonal solar module	Q140 6pcs
LifePO4 battery	25.6V 768WH
Charge controller	MPPT
Pole height	12 meters
Warranty	5years



60W (8mt.)

Solar light head	60W
Led power	60W
Luminous flux(lm)	>12,800lm
Power of solar module	400W
Hexagonal solar module	Q100 4pcs
LifePO4 battery	25.6V 768WH
Charge controller	MPPT
Pole height	8 meters
Warranty	5years



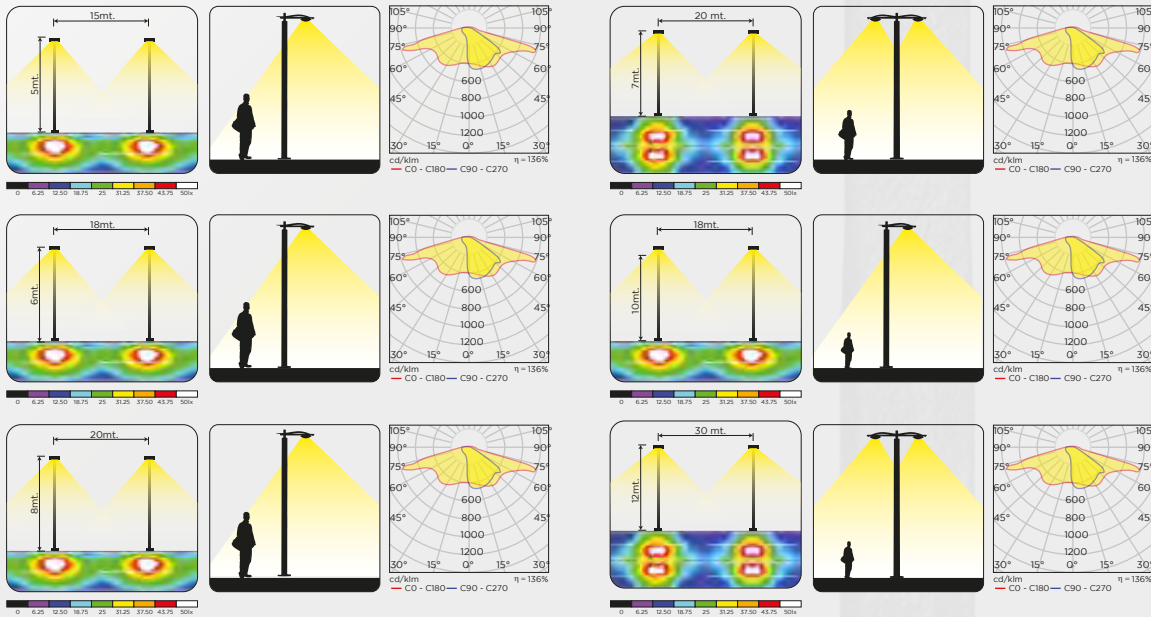
80W (10mt.)

Solar light head	80W
Led power	80W
Luminous flux(lm)	>14,800lm
Power of solar module	280W
Hexagonal solar module	Q140 4pcs
LifePO4 battery	25.6V 768WH
Charge controller	MPPT
Pole height	10 meters
Warranty	5years

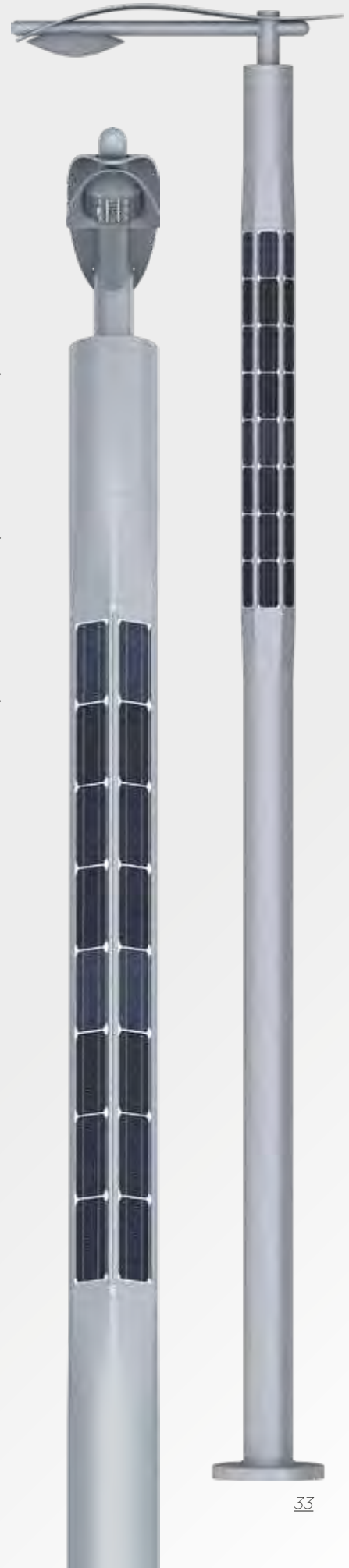
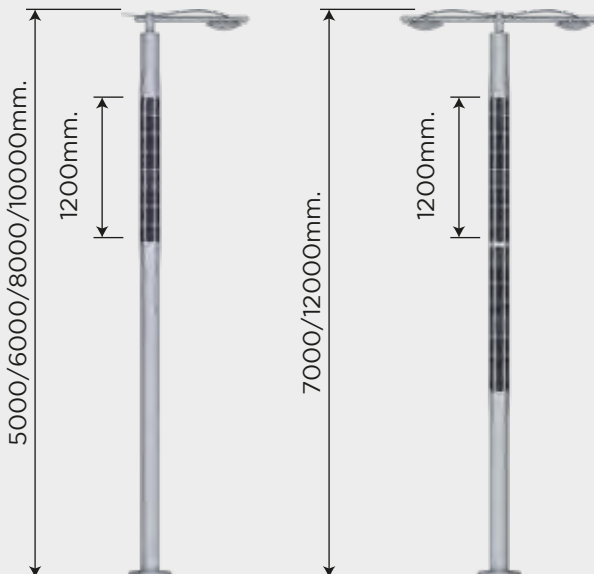


ARUNA

Aruna Mecanical Details



Technical Details





Colonna

The Colonna Pole is a lighting solution that utilizes vertical solar LED lighting systems integrated into the pole's structure, providing a sustainable and efficient source of illumination. The photovoltaic modules are mounted vertically in a 360° arrangement, allowing for maximum solar energy capture throughout the day. This energy is stored in batteries and used to power the artificial lighting at night. The Colonna Pole is suitable for a wide range of external application areas and offers several advantages over conventional solutions, such as a more uniform and aesthetically pleasing lighting source, as well as requiring less installation space.



Colonna

Colonna Mecanical Details

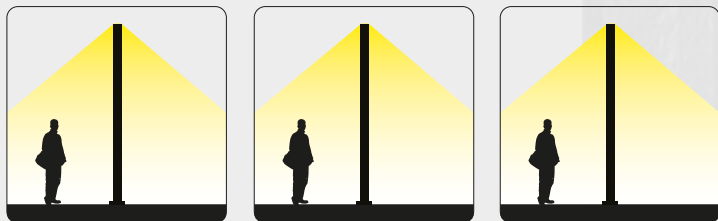
- Aluminium profile body and accessories
- Stainless steel screws
- Silicone gasket
- In compliance with European Standards EN-60598
- Mechanical impact resistance IK 08
- Protection Grade IP66
- Electrical installation Class I
- Electrostatic polyester powder coating with high thermal conductivity

Colonna Electrical Details

Colonna Lighting Details	Led	4000k
Single (4mt.)	15W	2175lm.
Single (5mt.)	20W	2900lm.

Colonna Solar Details	Hexagonal Solar P.	Battery	Charger
Single (4mt.)	100W	LiFePO4 310wH	MPPT
Single (5mt.)	140W	LiFePO4 360wH	MPPT

Dimming



6h 100%

6h 50%

Hybrid & AC/DC

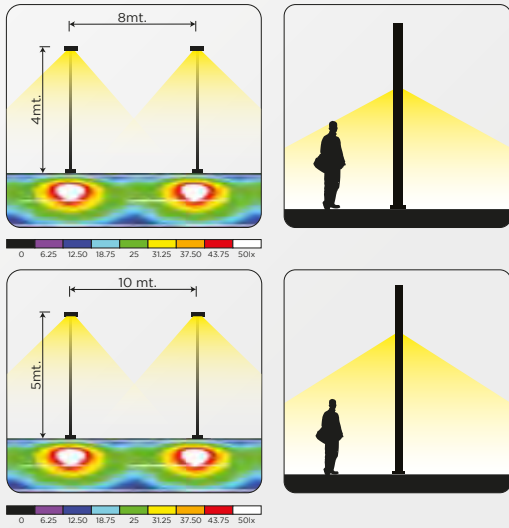


Charging

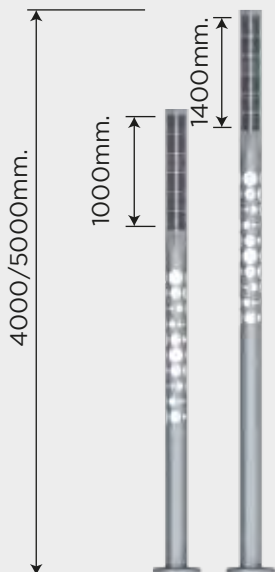


Colonna

Optical Details



Technical Details





EOS

The EOS Pole is a lighting solution that offers a simple and functional design that is both unpretentious and elegant. It provides a new option for lighting in cities and gardens, offering a brilliant source of illumination that is both practical and visually pleasing. The EOS Pole is suitable for a range of applications and provides a reliable and sustainable source of lighting for outdoor areas. Its understated design adds a touch of sophistication to any space, while its functionality makes it a practical choice for a wide range of external application areas.



Eos

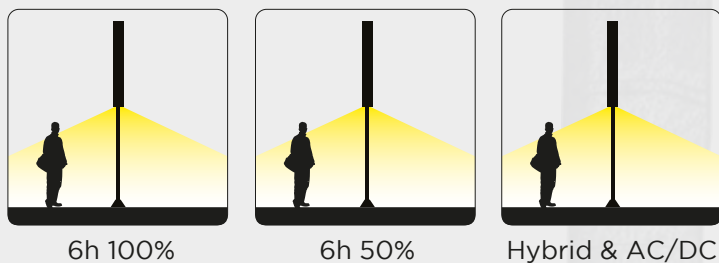
Eos Mechanical Details

- Galvanized steel pole
- Aluminium body
- Stainless steel screws
- Silicone gasket
- In compliance with European Standards EN-60598
- Mechanical impact resistance IK 08
- Protection Grade IP66
- Electrical installation Class I
- Electrostatic polyester powder coating with high thermal conductivity

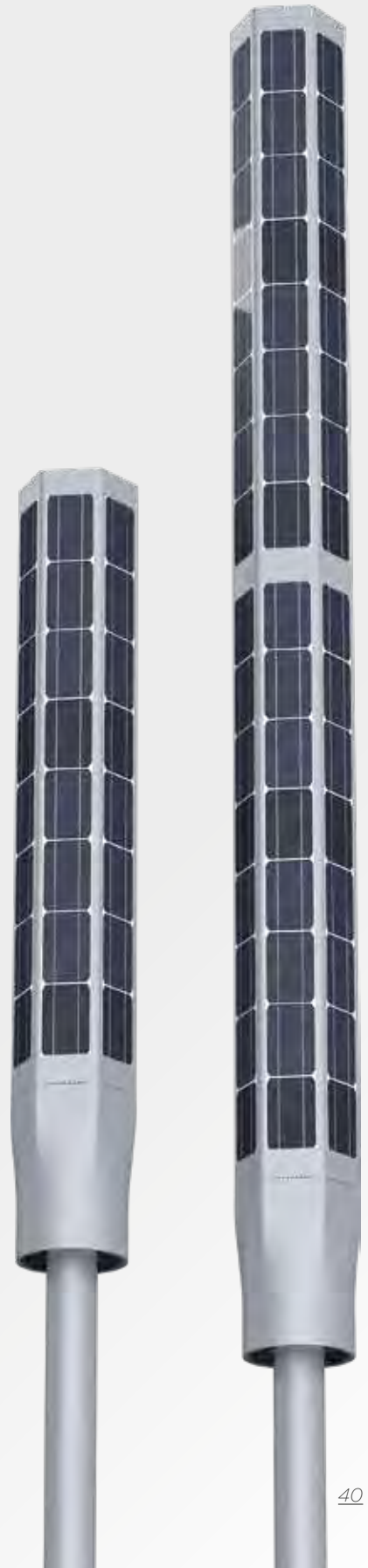
Eos Electrical Details

Eos Lighting Details	Led	4000k		
Single (4mt.)	15W	2175lm.		
Single (5mt.)	20W	2900lm.		
Single (6mt.)	30W	4350lm.		
Eos Solar Details	Hexagonal Solar P.	Battery	Charger	
Single (4mt.)	100W	LiFePO4 310wH	MPPT	
Single (5mt.)	140W	LiFePO4 480wH	MPPT	
Single (6mt.)	200W	LiFePO4 620wH	MPPT	

Dimming

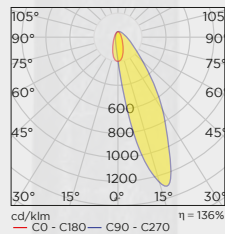
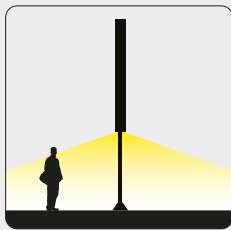
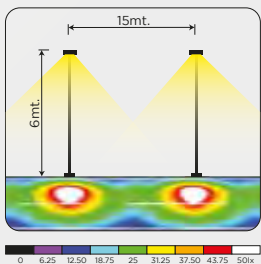
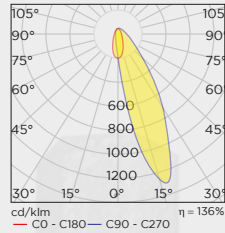
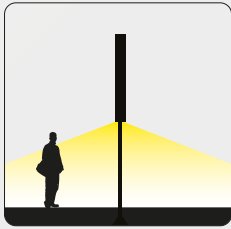
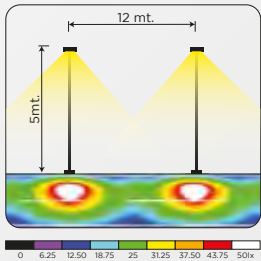
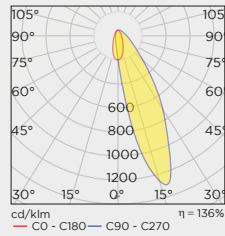
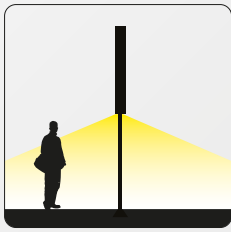
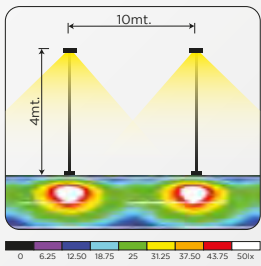


Charging

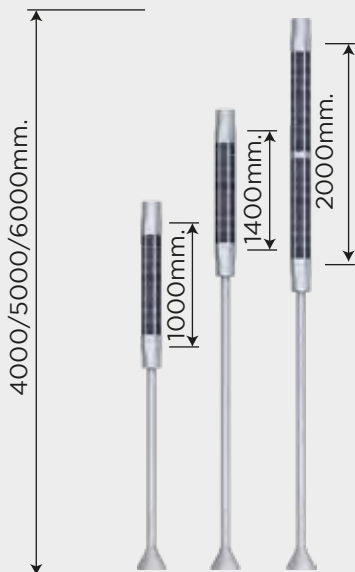


Eos

Optical Details



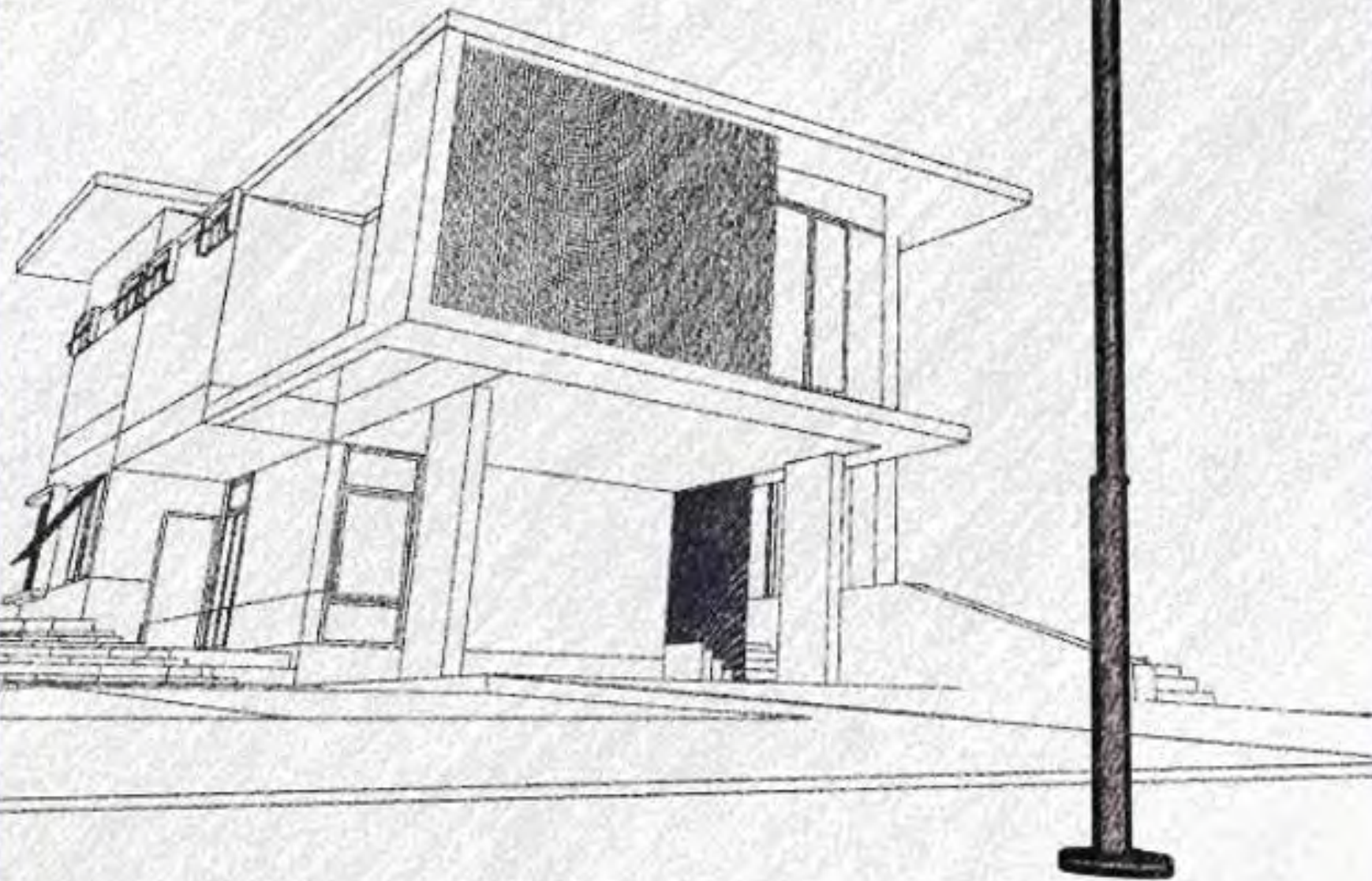
Technical Details





APOLLO

The Apollo Pole is an industry-leading solar-powered light that is part of the top of pole series. It offers a wide range of fixtures and features an adjustable mounting bracket, making it a versatile and customizable solution for outdoor lighting. The Apollo Pole is configured according to your location and lighting requirements, providing a reliable source of illumination that can run throughout the night or save energy by dimming when full light is not required. With its innovative technology and customizable options, the Apollo Pole is an ideal choice for a range of applications, offering a sustainable and efficient source of outdoor lighting.

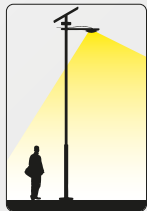


APOLLO

Apollo Mecanical Details

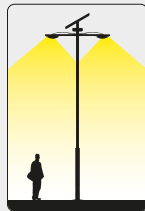
- Galvanized steel pipe and arm
- Luminaire aluminum body
- Stainless steel screws
- Silicone gasket
- In compliance with European Standards EN-60598
- Mechanical impact resistance IK 08
- Protection Grade IP66
- Electrical installation Class I
- Electrostatic polyester powder coating with high thermal conductivity

Apollo Electrical Details



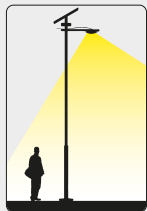
30W (5mt.)

Solar light head	30W
Led power	30W
Luminous flux(lm)	>4,800lm
Power of solar module	65Wp
LifePO4 battery	12.8V 506WH
Charge controller	MPPT
Pole height	5 meters
Warranty	5years



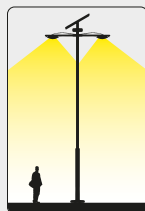
2x80W (10mt.)

Solar light head	2x80W
Led power	2x80W
Luminous flux(lm)	>2x12,800lm
Power of solar module	2x180Wp
LifePO4 battery	2x12.8V 1350WHx2
Charge controller	MPPT
Pole height	10 meters
Warranty	5years



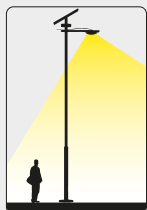
50W (6mt.)

Solar light head	40W
Led power	40W
Luminous flux(lm)	>6,400lm
Power of solar module	85Wp
LifePO4 battery	12.8V 675WH
Charge controller	MPPT
Pole height	6 meters
Warranty	5years



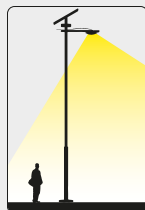
2x100W (12mt.)

Solar light head	2x100W
Led power	2x100W
Luminous flux(lm)	>2x16,800lm
Power of solar module	2x220Wp
LifePO4 battery	2x25.6V 1690WH
Charge controller	MPPT
Pole height	12 meters
Warranty	5years



60W (8mt.)

Solar light head	60W
Led power	60W
Luminous flux(lm)	>9,600lm
Power of solar module	150Wp
LifePO4 battery	12.8V 1012WH
Charge controller	MPPT
Pole height	8 meters
Warranty	5years



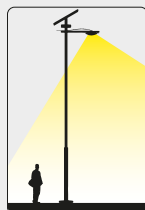
80W (10mt.)

Solar light head	80W
Led power	80W
Luminous flux(lm)	>12,800lm
Power of solar module	180Wp
LifePO4 battery	12.8V1350WH
Charge controller	MPPT
Pole height	10 meters
Warranty	5years



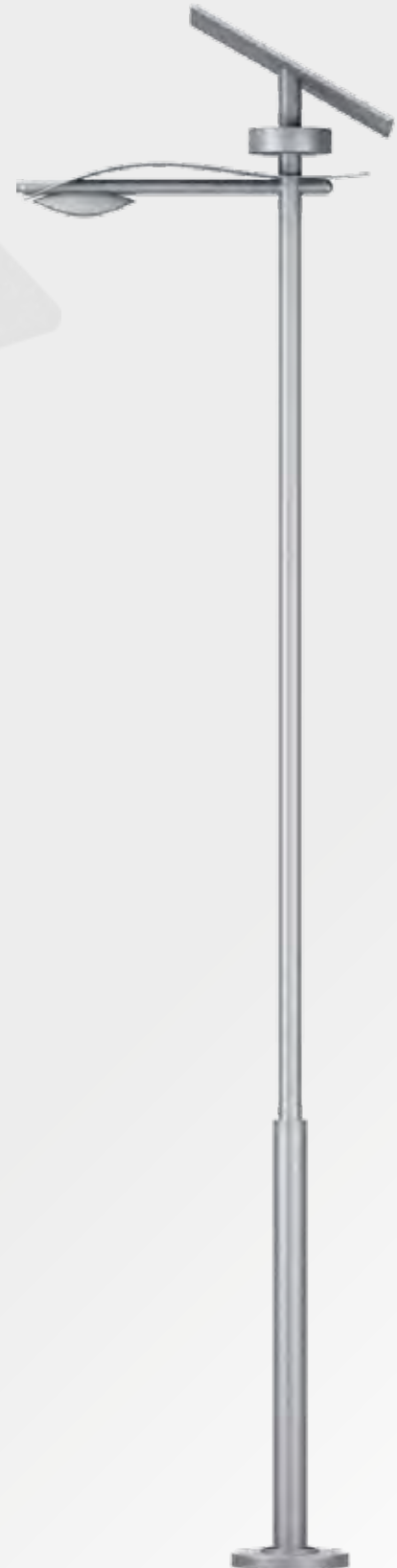
60Wx2 (8mt.)

Solar light head	2x60W
Led power	2x60W
Luminous flux(lm)	>2x9,600lm
Power of solar module	2x150Wp
LifePO4 battery	2x12.8V 1012WH
Charge controller	MPPT
Pole height	8 meters
Warranty	5years



100W (12mt.)

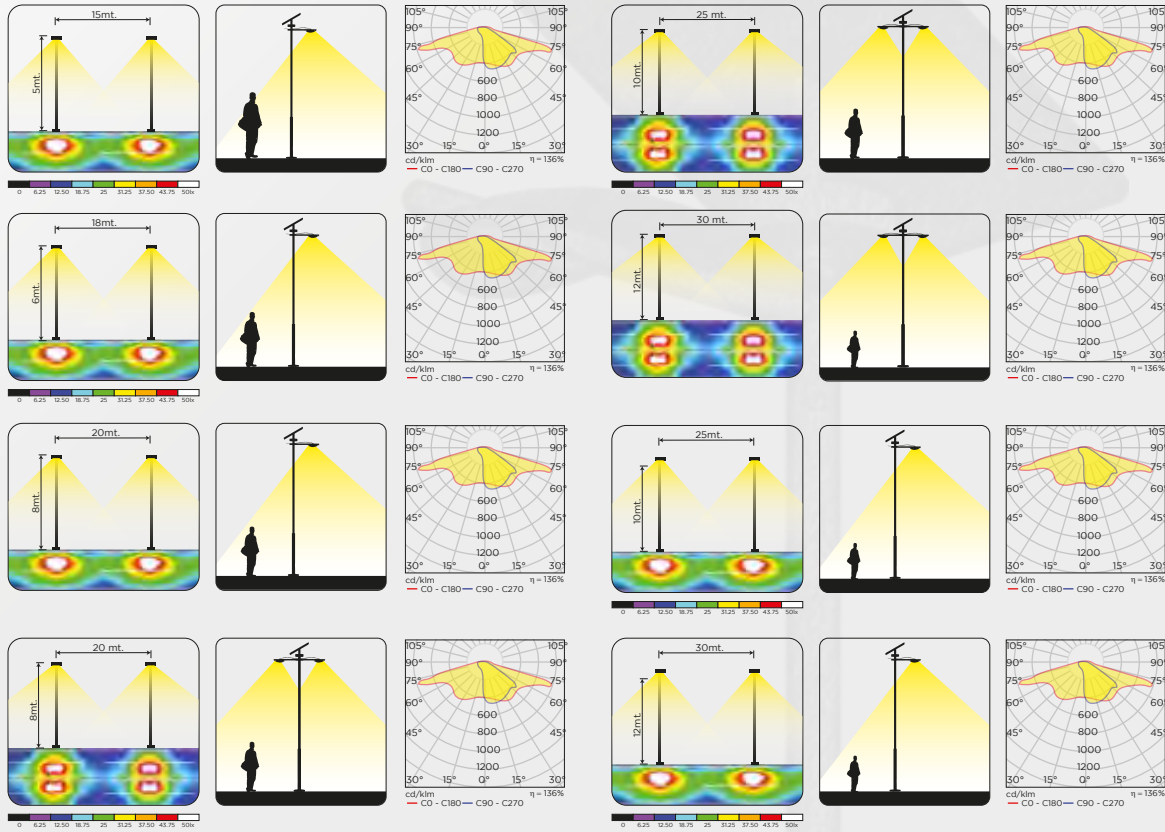
Solar light head	80W
Led power	80W
Luminous flux(lm)	>14,800lm
Power of solar module	220W
LifePO4 battery	25.6V 1690WH
Charge controller	MPPT
Pole height	10 meters
Warranty	5years



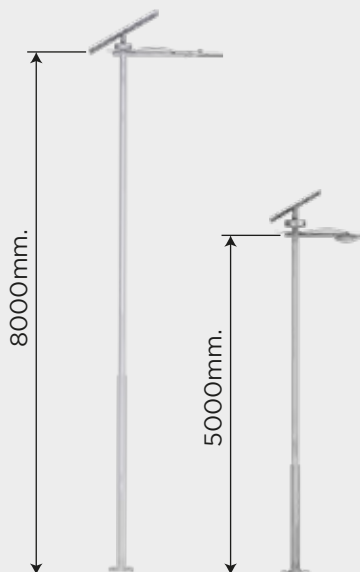
APOLLO



Apollo Mechanical Details



Technical Details

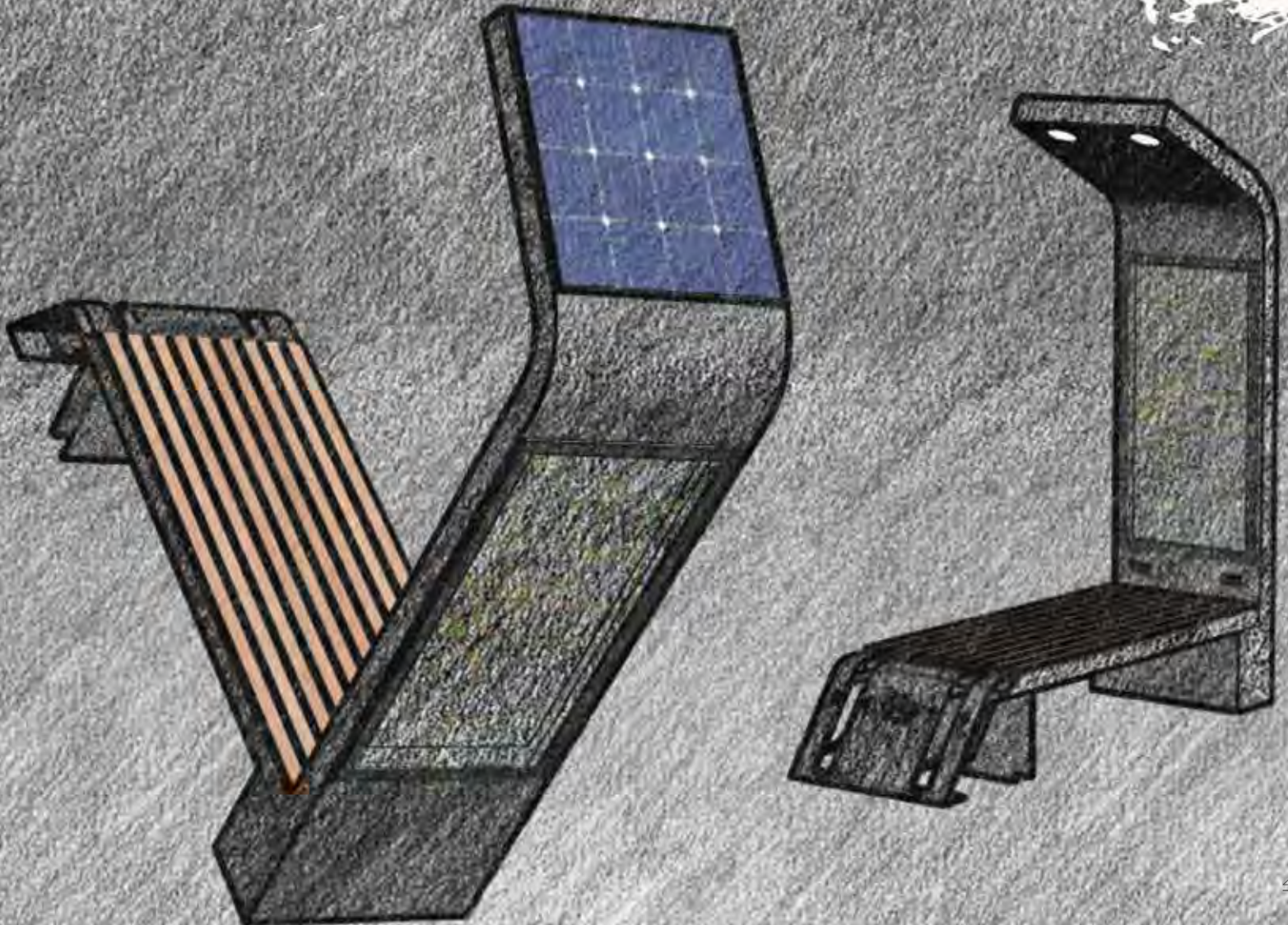


STREET FURNITURE



SOLAR BENCH

Dimming lighting, USB charger, bike parking



eco bench

Solar Bench is a type of outdoor bench that is equipped with solar panels and provides a sustainable source of energy. The solar panels are integrated into the bench's design and capture solar energy during the day, which is then stored in a battery to power electronic devices or provide lighting at night. Solar benches are typically found in public spaces such as parks, schools, and transportation hubs and offer a practical solution for individuals to charge their devices while on the go. They are an innovative and sustainable way to provide seating, lighting, and charging capabilities in outdoor areas



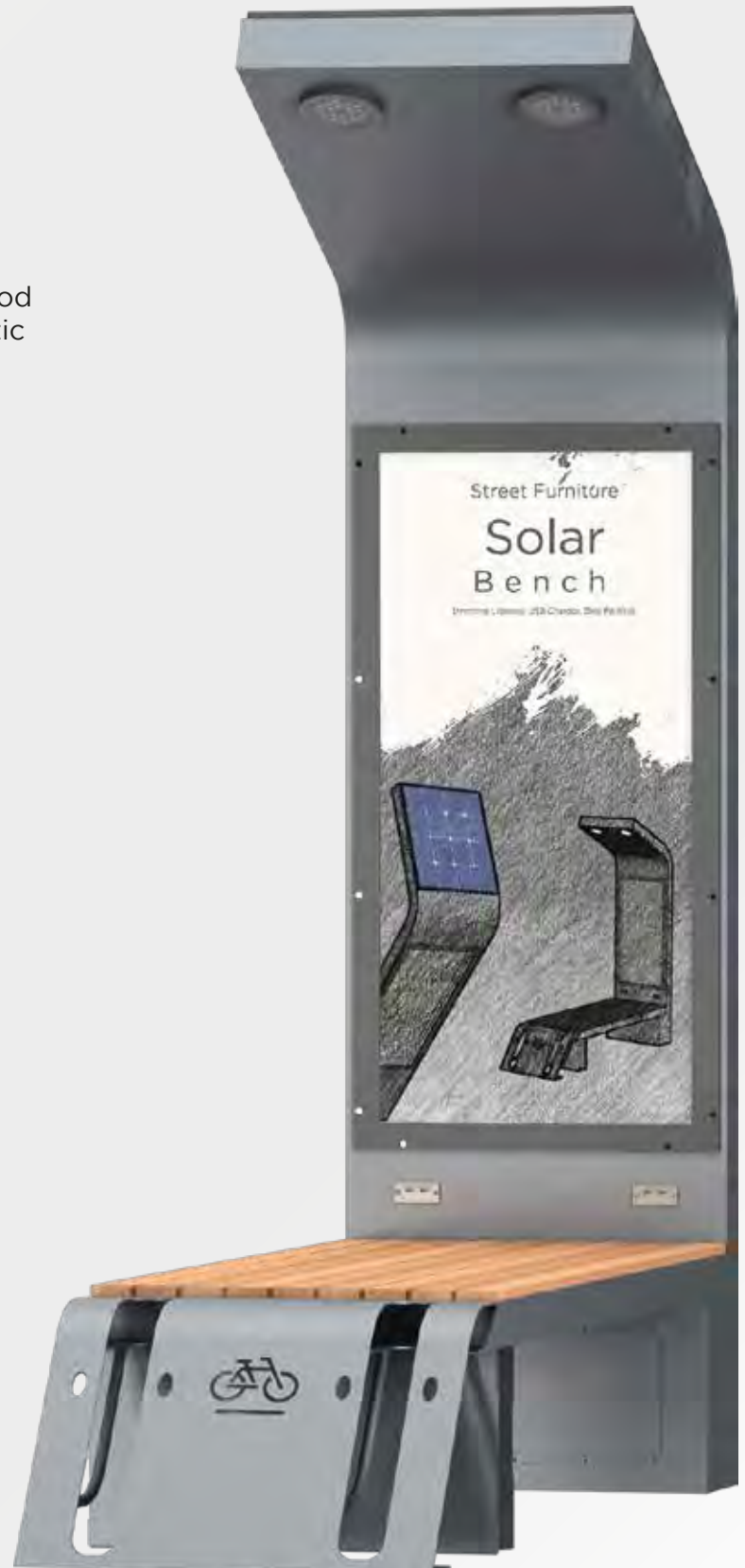
eco bench

Eco Bench Mecanical Details

- Corrosion resistant aluminum or galvanized steel body
- On extrude aluminum or glass Fibre reinforced polyester profile cladding with special natural wood
- After cataphoresis protection proses electrostatic powder coating
- Stainless steel screws

Solar Bench Electrical Details

Solar	Mono	100Wp
Led	SMD	2x10W
Battery	LiFePO4	72 Ah
USB Port	3.0	4 Ports
USB Charcer	PWM	20A



eco bench





solseat bench

Solseat - By integrating solar panels into the bench, you can create a sustainable and environmentally friendly way to power lighting screens and other features. The battery can store the energy collected by the solar panels during the day, allowing the bench to provide lighting or other functions even when it's dark outside.

There are already similar products on the market, such as solar-powered outdoor lights and benches with built-in charging stations for mobile devices. However, the combination of solar panels, a battery, and lighting screens in a single bench is a unique idea that could have many potential applications.



solseat bench

Solseat Bench Mecanical Details

- Corrosion resistant aluminum or galvanized steel body
- On extrude aluminum or glass Fibre reinforced polyester profile cladding with special natural wood
- After cataphoresis protection proses electrostatic powder coating
- Stainless steel screws

Solar Bench Electrical Details

Solar	Mono	100Wp
Led	SMD	2x10W
Battery	LiFePO4	72 Ah
USB Port	3.0	4 Ports
USB Charcer	PWM	20A



solseat bench





 LiFePO4

2023

Solar Mobile Lighting Tower



CE



Introduction



LiFePO4



ML Series



MLi Series



Solar Mobile Lighting Tower (TAYF), is suitable for Lighting a wide range of area applications.

Electricity generated from Renewable Sources makes TAYF a silently, clean, odorless, economic and environmentally power solution.

Generated electricity is stored in self-maintained deep cycle stationary batteries. Ready for use on demand 24 hours a day.

Integrating an Inverter is optional on all models. The purpose of this option is for times when you need to power something with AC power. Because of the inverter you will use Solar Mobile Lighting Tower (TAYF) as a generator.

All inverter models has AC In Plug that you easily connect to the grid/generator to charge the battery.

All the models are delivered fully assembled and after rigorous testing.

TAYF is designed for Light Output for continuous night work in a wide range of applications including Mining, Road works, Construction, Hazard illumination, Remote area lighting, Civil works, Agriculture and Events.

Usage Areas



- » Concert, Festival, Meeting Areas
- » Road, Railway Construction Areas
- » Mines
- » Construction Site
- » Emergency Meeting Areas
- » Agricultural and Events
- » Periodical Projects



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 www.applus.com

Applus⁺

CE CERTIFICATE

Nr. **13/32300921**

CERTIFICATE OF CONFORMITY

LGAJ-Technological Center, S.A. CERTIFIES that the documentation included in the Construction
 Technical File of:

SOLAR TAYF

Brand: İSTANBUL RÜZGAR VE ALTERNATİF ENERJİ ULUSLARARASI TİC. VE MÜM. LTD. ŞTİ.
 Models: ML 100, ML 200, ML 200-1
 Manufacturing Year: 2013

Manufactured and delivered to market by: İstanbul Bulvarı Formula Yol Kastaş Yanı Tuzla / İSTANBUL-TÜRKİYE

Is in compliance with Safety of Machinery Directive (2006/42/EC), as described in:
 Evaluation report No.: BK-MD-010

It confirms that the listed equipment (not Annex IV) meets the requirements of the
 directives, referring only to the CE mark evaluation.

After preparation of the required CE mark

Bellaterra, 7th

Certificate of Registration

This is to Certify that
Environmental Management System of
İSTANBUL RÜZGAR VE ALTERNATİF ENERJİ
ULUSLAR ARASI TİC. VE MÜM. LTD.ŞTİ.
İSTANBUL BULVARI FORMÜLA YOLU KASTAŞ YANI
BİNAM TUZLA İSTANBUL, TURKEY
has been assessed and found to conform to the requirements of
ISO 14001:2004
for the following scope:

İSTANBUL VE ÇEVRE ENERJİ ARAŞTIRMALARI ELEKTRİK ENERJİSİ ÜRETİMİ VE DAĞITIMI
 ELEKTRİK MONTAJ VE KURULUMU ELEKTRİK VE SAKLAMA VE DAĞITIMI
 ELEKTRİK MALZEMELERİNİN VE AYDINLATMA ARAÇLARININ
 ÜRETİMİ VE DAĞITIMI ELEKTRİK ENERJİSİNİN ÜRETİMİ VE DAĞITIMI
 ELEKTRİK ENERJİSİNİN ÜRETİMİ VE DAĞITIMI ELEKTRİK ENERJİSİNİN ÜRETİMİ VE DAĞITIMI

Certificate No.: 1013/0031
 Initial Registration Date: 26.09.2013
 Date of Expiry: 25.09.2014

Managing Director



This is to Certify that
Quality Management System of
İSTANBUL RÜZGAR VE ALTERNATİF ENERJİ
ULUSLAR ARASI TİC. VE MÜM. LTD.ŞTİ.
İSTANBUL BULVARI FORMÜLA YOLU KASTAŞ YANI
BİNASI TUZLA İSTANBUL, TURKEY
has been assessed and found to conform to the requirements of
ISO 9001:2008
for the following scope:

İSTANBUL VE ÇEVRE ENERJİ ARAŞTIRMALARI ELEKTRİK ENERJİSİ ÜRETİMİ VE DAĞITIMI
 ELEKTRİK MONTAJ VE KURULUMU ELEKTRİK VE SAKLAMA VE DAĞITIMI
 ELEKTRİK MALZEMELERİNİN VE AYDINLATMA ARAÇLARININ
 ÜRETİMİ VE DAĞITIMI ELEKTRİK ENERJİSİNİN ÜRETİMİ VE DAĞITIMI
 ELEKTRİK ENERJİSİNİN ÜRETİMİ VE DAĞITIMI ELEKTRİK ENERJİSİNİN ÜRETİMİ VE DAĞITIMI

Certificate No.: 1013/0031
 Initial Registration Date: 26.09.2013
 Date of Expiry: 25.09.2014

Managing Director



This is to Certify that
Occupational Health & Safety System of
İSTANBUL RÜZGAR VE ALTERNATİF ENERJİ
ULUSLAR ARASI TİC. VE MÜM. LTD.ŞTİ.
İSTANBUL BULVARI FORMÜLA YOLU KASTAŞ YANI
BİNASI TUZLA İSTANBUL, TURKEY
has been assessed and found to conform to the requirements of
OHSAS 18001:2007
for the following scope:

İSTANBUL VE ÇEVRE ENERJİ ARAŞTIRMALARI ELEKTRİK ENERJİSİ ÜRETİMİ VE DAĞITIMI
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 ELEKTRİK MALZEMELERİNİN VE AYDINLATMA ARAÇLARININ
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 ELEKTRİK ENERJİSİNİN ÜRETİMİ VE DAĞITIMI ELEKTRİK ENERJİSİNİN ÜRETİMİ VE DAĞITIMI

Certificate No.: 1013/0031
 Initial Registration Date: 26.09.2013
 Date of Expiry: 25.09.2014

Managing Director





ML Series Data Sheet

		ML-400	ML-400XL	ML-600	ML-600XL	ML-1200
LED Made in Turkiye	Power Watt	4 x 100W	4 x 100W	4 x 150W	4 x 150W	6 x 200W
	LED Efficiency	160-180 lm/W	160-180 lm/W	160-180 lm/W	160-180 lm/W	160-180 lm/W
	Working Life	50.000 hrs	50.000 hrs	50.000 hrs	50.000 hrs	50.000 hrs
	Protection Grade	IP66	IP66	IP66	IP66	IP66
	Working Temperature	-30C to +60C	-30C to +60C	-30C to +60C	-30C to +60C	-30C to +60C
	Warranty	5 Years	5 Years	5 Years	5 Years	5 Years
SOLAR Made in Turkiye	kWh per day	5600	6800	5600	6800	13600
	Numbers of Penels	4	4	4	4	8
	Module watts Each	280	340	280	340	340
	Total Array Watts	1120	1360	1120	1360	2560
	Warranty	25 years	25 years	25 years	25 years	25 years
BATTERY Made in Turkiye LiFePO4	Bank in Amp-Hours	350 A	400 A	400 A	400 A	800 A
	Bank Voltage	25,6 VDC	25,6 VDC	25,6 VDC	25,6 VDC	25,6 VDC
	Est bank storage	8,1 kWh	9,2 kWh	9,2 kWh	9,2 kWh	18,4 kWh
	Type	LiFePO4	LiFePO4	LiFePO4	LiFePO4	LiFePO4
	Deep Cycle	5000	5000	5000	5000	5000
	Warranty	2 years	2 years	2 years	2 years	2 years
CHARGE CONTROLLER Made in Turkiye	Max Amps -Hours	60	60	60	60	80
	MPPT	Yes	Yes	Yes	Yes	Yes
	Display	Yes	Yes	Yes	Yes	Yes
	Warranty	2 years	2 years	2 years	2 years	5 years
DATA	PV Input Voltage	Yes	Yes	Yes	Yes	Yes
	PV Input Currency	Yes	Yes	Yes	Yes	Yes
	Battry Voltage	Yes	Yes	Yes	Yes	Yes
	Output Current	Yes	Yes	Yes	Yes	Yes
	Inst. kW	Yes	Yes	Yes	Yes	Yes
	Date Loggings	120 days	120 days	120 days	120 days	120 days
TRAILER Made in Turkiye	Mast	7 mt	7 mt	7 mt	7 mt	9 mt HYDROLIC
	Axle	Single Axle	Single Axle	Single Axle	Single Axle	DOUBLE Axles
	Warranty	2 Years	2 Years	2 Years	2 Years	2 Years



ML-i MAXI



ML-400-i
ML-600-i



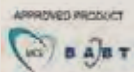
ML-i Series Data Sheet

		ML-400-i	ML-400-iXL	ML-600-i	ML-600-iXL	ML-i MAXI
LED	Power Watt	4 x 100W	4 x 100W	4 x 150W	4 x 150W	4 x 150W
	LED Efficiency	160-180 lm/W	160-180 lm/W	160-180 lm/W	160-180 lm/W	160-180 lm/W
	Working Life	50.000 hrs	50.000 hrs	50.000 hrs	50.000 hrs	50.000 hrs
	Protection Grade	IP66	IP66	IP66	IP66	IP66
	Working Temperature	-30C to +60C	-30C to +60C	-30C to +60C	-30C to +60C	-30C to +60C
	Warranty	5 Years	5 Years	5 Years	5 Years	5 Years
SOLAR	kWh per day	5600	6800	5600	6800	13600
	Numbers of Panels	4	4	4	4	8
	Module watts Each	280	340	280	340	340
	Total Array Watts	1120	1360	1120	1360	2560
	Warranty	25 years	25 years	25 years	25 years	25 years
BATTERY  LiFePO4	Bank in Amp-Hours	350 A	400 A	400 A	400 A	800 A
	Bank Voltage	25,6 VDC	25,6 VDC	25,6 VDC	25,6 VDC	25,6 VDC
	Est bank storage	8,1 kWh	9,2 kWh	9,2 kWh	9,2 kWh	18,4 kWh
	Type	LiFePO4	LiFePO4	LiFePO4	LiFePO4	LiFePO4
	Deep Cycle	5000	5000	5000	5000	5000
	Warranty	2 years	2 years	2 years	2 years	2 years
CHARGE CONTROLLER Made in USA	Max Amps -Hours	60	60	60	60	80
	MPPT	Yes	Yes	Yes	Yes	Yes
	Display	Yes	Yes	Yes	Yes	Yes
	Warranty	5 years	5 years	5 years	5 years	5 years
INVERTER Made in USA	Rated Output	3000 W	3000 W	3000 W	3000 W	3000 W
	Surge Power	6000 W	6000 W	6000 W	6000 W	6000 W
	AC Voltage	120 or 230 VAC	120 or 230 VAC	120 or 230 VAC	120 or 230 VAC	120 or 230 VAC
	Warranty	5 years	5 years	5 years	5 years	5 years
DATA	PV Input Voltage	Yes	Yes	Yes	Yes	Yes
	PV Input Currency	Yes	Yes	Yes	Yes	Yes
	Battery Voltage	Yes	Yes	Yes	Yes	Yes
	Output Current	Yes	Yes	Yes	Yes	Yes
	Inst. kW	Yes	Yes	Yes	Yes	Yes
	Date Loggings	120 days	120 days	120 days	120 days	120 days
TRAILER	Mast	7 mt Mechanical	7 mt Mechanical	7 mt Mechanical	7 mt Mechanical	9 mt HYDROLIC
	Axle	Single Axle	Single Axle	Single Axle	Single Axle	DOUBLE Axles
	Warranty	2 Years	2 Years	2 Years	2 Years	2 Years





istanbul
energy



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