



Solar Led Catalog



Solar Portable Light

LC-SLP-06

Powered by Sunlight

Never worry about power cuts

All-purpose lamp for camping or travelling:

1. Carry it as a lantern
2. hang it up as a pendant lamp
3. place it on the table as a table lamp

Lighting time : 8Hrs

Charge Iphone, ipods, mobile phones ,camera, PSP,GPS, MP3/MP4 etc... (optional)

solar panel: 1.7W 6V 280mA

Li-ion battery: 3.7V 2200mAh

LED power: 1W, 15pcs

LED lumens: 100lm

LED color temprature: 6000K~6500K

solar charging time: 8Hrs

Lighting time with full battery: 8Hrs

Switch: ON/OFF

material: top case: white ABS; globe holder: transparent PC;

handle: white ABS

Product size: 117*88mm*88mm



Solar Portable Light

LC-ESL-12



Powered by Sunlight

1. Smart foldable design
2. Aluminum and ABS body
3. Hand touch switch with dimmable lighting
4. Opened as table study light
5. Folded as lantern or hanging light
6. Portable for camping, travelling

solar panel: 1.6W - 17% efficiency

Li-ion battery: 3.7V 4000mAh

LED power: 3W

LED lumens: 300lum

LED color temperature: 2700K/6500K

Solar charging time: 7/8Hrs

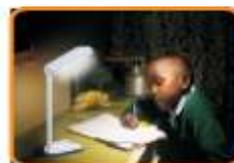
Lighting time with full battery: 4Hrs at 100% / 40 Hrs dim light

Switch: ON - OFF - Dimmable

material: top case: white ABS; globe holder: transparent PC;

handle: white ABS

Product size: 302x88x25mm folded - 302x88x96mm opened



Solar LED Latern

LC-SL-601/602



Powered by Sunlight

Bottom of the lantern, you can adjust the brightness with 0-100%
 Can be charged by sunlight or AC charger
 Super bright at night of dark place
 Has noctilucent display, easy to find in darkness
 With USB power cable, can charge for all kinds of mobiles
 Different colors for your choice

Description LC-SL-601

- 2.2W solar panel
- 2pcs 3.7V 1.8Ah Lithium Rechargeable Battery
- 4W - 8pcs super bright LED
- USB power cable and AC charger are optional, adjustable for the brightness from 0-100%
- Charging Mode : Sunlight or AC charger
- Box size : 14.5*14.5*27.0cm (1pc)
- Ctn size : 46*32.5*58cm (12pcs)

LC-SL-602



Description LC-SL-602

- 1,5W solar panel
- 1pcs 3.7V 1.8Ah Lithium Rechargeable Battery
- 2W - 8pcs super bright LED
- Charging Mode : Sunlight
- Box size : 14.5*14.5*27.0cm (1pc)
- Ctn size : 46*32.5*58cm (12pcs)
- No charging function for cell phone)



Solar LED Motion Light

LC-SL-08P

All in One

Integrated design of PIR motion sensor and night sensor
 Recharged by sunlight and store power for overnight lighting.
 Over 12 Hours lighting time after one day sun charge
 Bright light and Dim light switch to save energy Intelligently
 Waterproof IP65, heatproof and durable
 Easy installation

Specifications:

- Solar panel: 0.55W, 17% efficiency
- Li-ion battery: 3.7V 800mAh
- Switch Pin: turn on/off the light by hand
- LED: 16pcs, SMD 3528, 1 Watt, 100Lumens
- Lighting mode: Dark/DIM/bright,
- DIM: weak lighting for saving power when no motion
- Bright: motion activate for lighting when people walk near
- Protect function: Over charging, over discharging, over current, short circuit
- Advantage for electronic:
 - a) Constant voltage 4.2V charging type
 - b) Input current limited
 - c) Output current limited
 - d) Backflow current proof for solar cell
 - e) High efficiency
- 8. Size: 132*92*77mm



Solar LED Motion Light

LC-SL-09P/LC-SL-19P

All in One



Integrated design of PIR motion sensor and night sensor
 Recharged by sunlight and store power for overnight lighting.
 Over 12 Hours Lighting time after one day sun charge
 Bright light and Dim light switch to save energy Intelligently
 Waterproof IP65, heatproof and durable

Solar panel: 0.44W, 17% efficiency
 Li-ion battery: 2.22WH/1000mAh
 LED: 4/8pcs, SMD 3528, 0.8 Watt,80/160Lumens
 Color temperature: 6000K to 6500K
 Lighting mode: Dark/DIM/bright,
 DIM: weak lighting for saving power when no motion
 Bright: motion activate for lighting when people walk near
 PIR motion sensor:120°,3M; Night sensor:<10Lux
 Charing Protection: Over charging, over disch arging, over current,
 short circuit
 Size:104*86*40mm



Solar LED Ground Light

LC-ESL-01

All in One

Built-in full screen solar panel with high charging efficiency
Soft full screen bright light, no dazzling point lighting
Strong pressure-resistant stainless housing with firm glass
Over 50 hours Super long lighting time

solar panel: 0.55W
Li-ion battery: 3.7V 600mAh
LED: 20Lumens bright light, 2700K-6500K
Charging time by solar panel: 6-7 hours in bright sunlight
Lighting time: high bright light 50Hrs
Surface Load Capacity: 1000kg
Waterproof: IP68
Material: Stainless steel and aluminum
Work temperature: -25? to 65?
Size: F 128*58mm; Weight: 520g



Solar LED Motion Light

with security monitor

LC-ESL-02/32

All in One

Unique Motion sensor light with Security monitor
 100% solar powered, wireless connection
 Elegant patent design, great for home decoration
 Professional sensitive security monitor with Red warning light and sound
 Waterproof Ip64



Solar panel: 1W;
 Li-ion battery: 3.7V 2000mAh
 LED: 200/400lm; PIR sensor: 120degree, 5m.Max
 Switch: warning function ON/OFF, OFF: warning function OFF, ON: warning function ON at night time
 Warning indicator: red LED; Buzzer >100dB
 Solar charging time: 12Hrs
 Bright lighting time: around 4 to 5Hrs
 Lighting mode: Dim lighting from dark to dawn, Bright lighting 30secs when people move through the light
 Warning mode: Switch ON, Buzzer ring out when people move through the light
 Warning + Dim light mode time: around 4 to 7days
 Install height: 2.5m to 3.5m
 Material: UV proof plastic,Waterproof: IP64
 Size: 234mm*130mm*100mm for product without package



Solar Apple LED Light

LC-SC-SAPP - 4 / 8 W

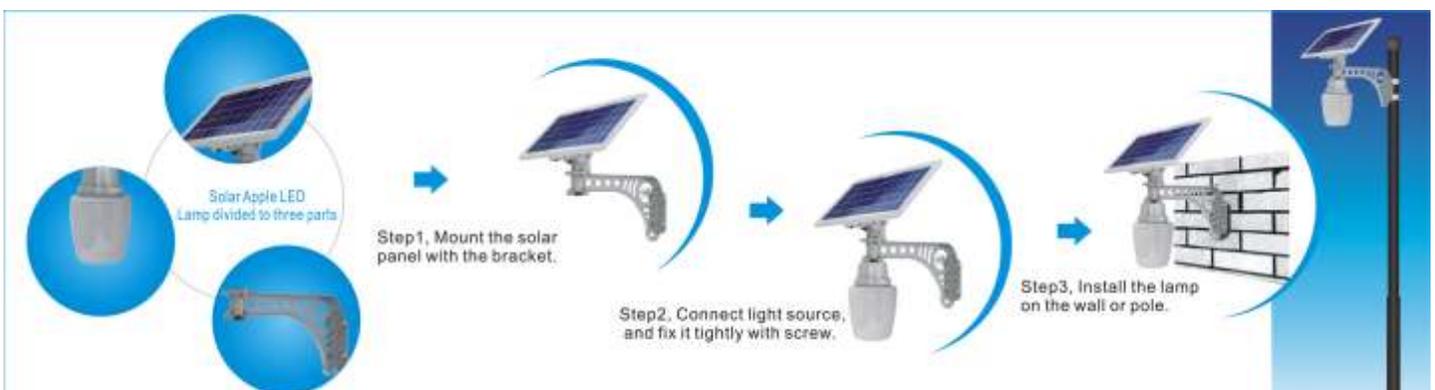
All in One



2 types : 4W = 720 Lum
8W = 1440 Lum

Beautiful and modern appearance, simple and fashionable.
Use of solar green energy, environment friendly, saving more.
Low voltage driving, meet the Europe standard of CE RoHS FCC.
No Hg, Pb or other hazardous materials, no radiation, human safety.
IP65 grade, TVS lightning protection.
Long lifetime of whole lamp, low maintenance costs.

Integrated design Integrate solar panel, LED, lithium battery, micro-controller and other accessories into one system, simple and stylish. Micro-computer controlled Combine microwave sensor system, light control system and driver control system perfectly, ensure whole system more energy-efficient. Solar panel angle adjustable Rotate 240° horizontally, 200° vertically, ensure maximum efficiency of solar energy conversion. High efficiency Light efficiency reach 150lm/w, at same illumination, lower watt available. Lithium battery Adopt lithium battery to replace traditional gel battery, longer lifetime. Modular design All components are modular design and in standardized production. Long time working Working continuously for 4-5 rainy days. Low cost Compared with traditional solar led lights, much lower cost, easy to transport. Remote control Simple operation, change to different modes easily.



Solar Night Hawk

LC-SC-NH50/65 B



2 types : 20W = 3.600 Lum
30W = 5.100 Lum



Wireless application-Integrated solar panel, LED, lithium battery, micro-controller and other accessories into one system, simple and stylish.

Micro-computer controlled-Combine motion sensor system, light control system and timecontrol system perfectly, ensure whole system more energy-efficient.

Easy installation-No power required, no cables required, easy installation in 5 minutes.

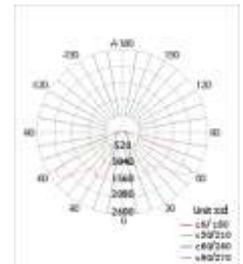
Solar panel angle adjustable-Adjustable in vertical and horizontal direction, ensure maximum efficiency of solar energy conversion. Lithium battery-Adopt lithium battery to replace traditional gel battery, longer lifetime.

Modular design-All components are modular design and in standardized production. Battery can be easily replaced if needed.

Low cost-Compared with traditional solar led lights, much lower cost, easy to transport.

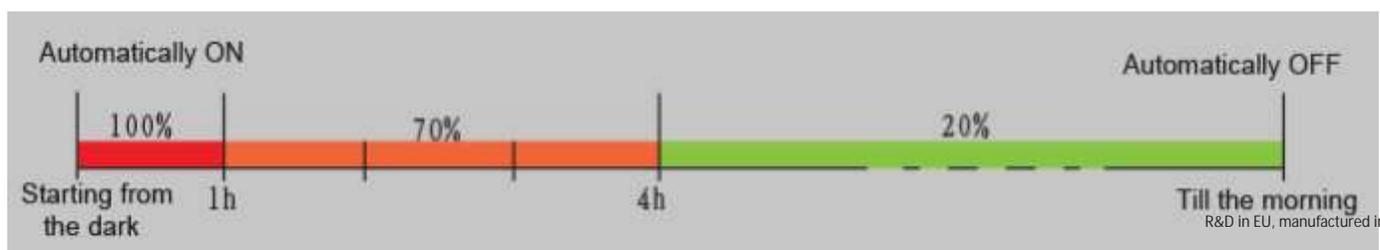
Good heat dissipation-Solar panel, battery and light body do not connect directly, they will not conduct heat to each other, to support good heat dissipation and long lifetime.

Extreme light-Light efficiency reach 160lm/w, at same illumination, lower watt available.



Type	SC-NH50-B	SC-NH65-B
Lamp power	20W	30W
Solar panel	50W/12.8V	65W/12.8V
Lithium battery	212WH	340WH
LED qty	40pcs	60pcs
Luminous flux	3200-3600lm	4800-5100lm
LED chip	Bridgelux	
Color temperature	3000-6500K	
CRI	≥75Ra	
Light control voltage	5V	
Light distribution	Batwing	
Rainy days	2days	
Charge time	6hours	
Working temperature	20°C-60°C	
Lifetime	≥50000hours	
Material	High quality aluminum alloy, die-cast aluminum	
Pole top diameter	70mm	
Mounting height	5-8meters	
Installation spacing	10-30meters	

Photometric data on request



Solar LED Plaza Light

LC-ESL- 04 / 14 / 24

All in One



Aluminum alloy case, Patented integrated design
 Superbright LED light
 Professional light distribution for wide angle lighting
 Replaceable large battery, supports min 3 days of lighting
 Easy to installation on pole

Specifications:

- Flat compact Solar panel: 15,6/35/60W, 10 years lifespan
- High power Li-ion battery: 96/230/461Wh, easily replaceable
- LED source: 900/1500/3000lm superbright with 3 LED panels, 6000/6500K, 50.000 hrs lifespan
- Solar charging time: 9/10Hrs in bright sunlight
- Lighting time: 3 days fully charged
- Lighting mode: Off in daytime, 100% during first 5 hrs then 25% until dawn
- Ray sensor: 10 Lux
- Material: Aluminum alloy case
- Size: height 163mm, diameter 526mm



Solar LED Plaza Light

LC-ESL- 18

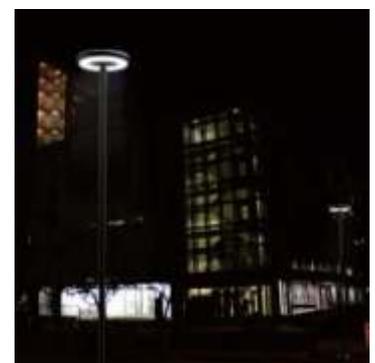
All in One



Aluminum alloy case, Patented integrated design
Professional light distribution for wide angle lighting
Replaceable large battery, supports min 3 days of lighting
Easy to installation on pole

Specifications:

- Flat compact Solar panel, 10 years lifespan
- High power Li-ion battery: easily replaceable
- LED source: 900lm superbright with LED panels, 6000/6500K, 50.000 hrs lifespan
- Solar charging time: 9/10Hrs in bright sunlight
- Lighting time: 3 days fully charged
- Lighting mode: Off in daytime, 100% during first 5 hrs then 25% until dawn
- Ray sensor: 10 Lux
- Material: Aluminum alloy case + ABS
- Size: N/A
- Still in test fase



Combined Mode Solar Plaza Light

LC-ESL- 23

20% High efficiency Solar Panel
Aluminum alloy case, Patent integrated design
400Lum, each LED panel - 1-4 Led panel option
White light and blue light for decoration
Easy to installation on pole

Specifications:

- Flat compact Solar panel, 10 years lifespan
- High power Li-ion battery: easily replaceable
- LED source: 400/1200lm superbright with LED panels, 6000/6500K, 50.000 hrs lifespan - with RGB Super Bright
- Solar charging time: 7/8Hrs in bright sunlight
- Lighting time: 3 days fully charged
- Lighting mode: 100% during night time
- Material: Aluminum alloy case + ABS
- Size: N/A
- Still in test fase



Solar LED Pillar Light

LC-ESL-15 / 25

All in One



Elegant CUP design
Stainless Aluminum body
100% solar powered, wireless connection
Superbright LEDs, 100Lumens
over 2 nights days long lighting time, Waterproof IP65

Flat compact Solar panel: 1.6W, 17% efficiency
High power Li-ion battery: 3.7V - 2000mAh
LED source: 100Lumens, 6000~6500K
Solar charging time: 6~7Hrs by bright sunlight
Lighting time: around 3days
Lighting mode: 5hours lighting +7hours Dim light per night
Switch: Auto on/off by Ray and timer
Material: Aluminium
Size: 264mm(H)*dia160mm (LC-ESL-15)
Size: 800mm(H)*dia160mm (LC-ESL-25)



Solar step wall light

LC-ESL-06

All in One

Unique Motion sensor light with Security monitor
 100% solar powered, wireless connection
 Elegant patent design, great for home decoration
 Professional sensitive security monitor with Red warning light and sound
 Waterproof Ip65



Flat compact Solar panel: 1W, 17% efficiency
 High power Li-ion battery: 7.4WH
 LED source: 50Lumens, 2700K~2900K
 Solar charging time: 12Hrs by bright sunlight
 Lighting time: around 3~4 days
 Lighting mode: dark to dawn
 Switch: Auto active by Ray
 Material: Aluminium



Solar LED Super Motion Light

LC-ESL-21

All in One



Aluminum alloy case, Patent integrated design
 3W solar panel and 300/700lumens superbright LED light
 Special Reflected lighting way to enlarge lighting area,
 no dazzling or blinking
 Night sensor + PIR motion sensor
 Replaceable big battery, can support 4~5 days lighting
 Dim light and Bright light switch by PIR to save power 30% over!
 Easy to install on wall or pole

Flat compact Solar panel: 3W, 10years span life
 High power Li-ion battery: 3.7V 4000mAh, can be replaced easily by users
 LED source: 300lm superbright 4 big LEDs, 6000~6500K, 50000Hrs span life
 Solar charging time: 7~8Hrs by bright sunlight
 Lighting time: 4Hrs bright light, 40Hrs dim light
 Lighting mode: Off in daytime, 70 lumens Dim lighting + motion sensor (700 lumens Bright lighting 30secs when people move through the light)
 Reflection ratio: >90%
 Ray sensor: <10Lux
 PIR sensor: 3~5m, 120°
 Material: Aluminium alloy
 Size: 282mm*185mm*205mm



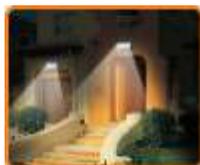
Solar LED Motion Wall Light

LC-SML-01



Aluminum Alloy Case, Separate Solar panel for outdoor
 1000 Lumens Superbright LED light
 Replaceable and Rechargeable Li-ion Battery
 Sensitive PIR Motion Sensor, save power 30% over
 100% Solar powered, Green energy, Green Light
 Waterproof IP65
 Solar PIR LED Light with solar panel holder

Flat compact Solar panel: 5W, 10 years span life
 High power Li-ion battery: 3.7V, 8000mAh
 LED source: 1000lm, 7W, 2700/6500K, 50000Hrs span life
 Solar charging time: 9Hrs by bright sunlight
 Lighting time: more then 5 nights - full charged
 Lighting mode: Off in daytime, Dim light in night time,
 Bright light by PIR motion sensor activated
 Delay time: 30 sec
 Ray sensor: <10Lux
 Sensitive PIR sensor: 3-5m, 120°
 Material: Aluminium alloy + toughened glass



All in One Solar Street Courtyard Light

LC-ESL-07 / 16 / 19

Elegant Integrated Design, Aluminum alloy case
 Superbright LEDs, 700/1200/2000 Lumens
 Every element can easily be replaced
 Night sensor and PIR sensor
 Over 120° wide lighting angle
 Provides 3 nights lighting
 Easy installation

Specifications:

- Monocrystalline Solar panel
- Rechargeable Li-ion battery
- LED: 500/1200/2000 Lumens bright light, 6000K
- Lighting mode: 100% light during first 5 hrs, then 25% light with PIR sensor
- Lighting time > 30 hours
- Charging time: 12 hours in bright sunlight
- Installation height: 3-6 meters
- Waterproof: IP65
- Materials: Aluminum alloy + tempered glass
- Working temperature: -20°C to +55°C
- Size: 470/783 x 227x 164 mm



All in One Solar Street Courtyard Light

LC-ESL-29 / 39



Elegant Integrated Design, Aluminum alloy case
 Superbright LEDs, 3000/4000 Lumens
 Every element can easily be replaced
 Night sensor and PIR sensor
 Over 120° wide lighting angle
 Provides 3 nights lighting
 Easy installation

Specifications:

- Monocrystalline Solar panel 33/45Wp
- Rechargeable Li-ion battery 230/346Wh
- LED: 3000/4000 Lumens bright light, 6000K
- Lighting mode: 750/1000 lumens dim light + motion sensor
 (Bright lighting 3000/4000 lumens for 30secs when people
 move through the light)
- Lighting time > 3 nights
- Charging time: 9-10 hours in bright sunlight
- Installation height: 4-7 meters
- Waterproof: IP65
- Materials: Aluminum alloy + tempered glass
- Working temperature: -20°C to +65°C
- Size: 1553/1933 x 420 x 224 mm



Solar LED Streetlight

LC-ESL-20 / 30 / 40

All in One



Elegant Integrated Design, Aluminum alloy case
 Superbright LEDs, 2000/3000/4000 Lumens
 Every element can easily be replaced
 Over 140° wide angle lighting
 Support 3 nights lighting time
 Easy installation

Specifications:

- Monocrystalline Solar panel:
- Rechargeable Li-ion battery
- LED: 2000/3000/4000 Lumens bright light, 6000K
- Lighting mode: 100% during first 5 hrs, then 25% until dawn
- Lighting time > 30 hours
- Charging time: 12 hours in bright sunlight
- Installation height: 4-6 meters
- Waterproof: IP65
- Materials: Aluminium alloy + tempered glass
- Working temperature: -20°C to +55°C
- Size: 1092 x 488 x 117 mm



Solar LED Streetlight

LC-ESL-48

All in Two

Elegant Integrated Design, Aluminum alloy case
 Superbright LEDs, 4800 Lumens
 Every part can easily be replaced
 Over 140° wide angle lighting
 Supports min 3 nights of lighting
 Easy installation

Specifications:

- Mono Crystalline solar panel
- Rechargeable Li-ion battery
- LED: 4800 Lumens bright light, 6000K
- Charging time: 12 hours in bright sunlight
- Lighting time > 36 hours
- Lighting mode: 100% during first 5 hrs, then 25% until dawn
- Install height: 6-8 meters
- Waterproof: IP65
- Materials: Aluminium alloy + ABS + tempered glass
- Working temperature: -20°C to +55°C
- Size: 1092 x 488 x 117 mm



Solar LED Streetlight

LC-ESL-72 / 96

All in Two

Elegant Integrated Design, Aluminum alloy case
 Superbright LEDs, 7200/9600 Lumens
 Every part can easily be replaced
 Over 140° wide lighting angle
 Provides 3 nights lighting
 Easy installation

Specifications:

- Mono Crystalline solar panel
- Rechargeable Li-ion battery
- LED: 7200/9600 Lumens bright light, 6000K
- Charging time: 12 hours in bright sunlight
- Lighting time: > 36 hours
- Lighting mode: 100% during first 5 hrs, then 25% until dawn
- Installation height: 8-12 meters
- Waterproof: IP65
- Materials: Aluminum alloy case + ABS + tempered glass
- Working temperature: -20°C to +55°C
- Size: 1092 x 488 x 165 mm



Solar LED Streetlight

Premium lighting solution with long and reliable service life
This entirely self-sufficient off-grid solution for private, commercial and municipal use will illuminate entire communities without the need for excavation works, cable laying and public grid connection, at a much lower cost of ownership.



- Automatic switch on/off function
- Generously equipped basic solution
- Integrated photo sensor
- Automatic dimming
- Configurable timer
- Environmentally friendly
- European components of superior quality
- Long service life

This entirely self-sufficient off-grid solution for private, commercial and municipal use will illuminate entire communities without the need for excavation works, cable laying and public grid connection, at a much lower cost of ownership.

Strictly top quality EU-made components distinguish the Ledcon solar street light as an extremely reliable source of light with prolonged service life. Featuring automatic dimming, self-regulated switch on/off function and motion detection it promotes more responsible energy consumption and causes minimal light pollution.



Lighting category according to EN13201
Typical application

ME5 / ME6 / S2 / S3 / S4 / S5 / S6
Residential streets, private driveways, walking paths, urban local roads, parking lots, bicycle lanes, industrial areas
27 hours (1)
-20 °C to + 50 °C
IP 65 (applies to LED light, PV module, electronics, battery)

System autonomy
Temperature range
Protection



Automatic switch on/off function



Configurable timer



Integrated photo sensor



Automatic dimming & Motion detection option



Best price-quality ratio



European components of superior quality



Long service life



Generously equipped basic solution



Environmentally friendly

Solar LED Streetlight

Streetlight (or street lighting) can be found along the way and other places in public spaces such as parks. In the dark, it is important that road users can estimate traffic hazard.

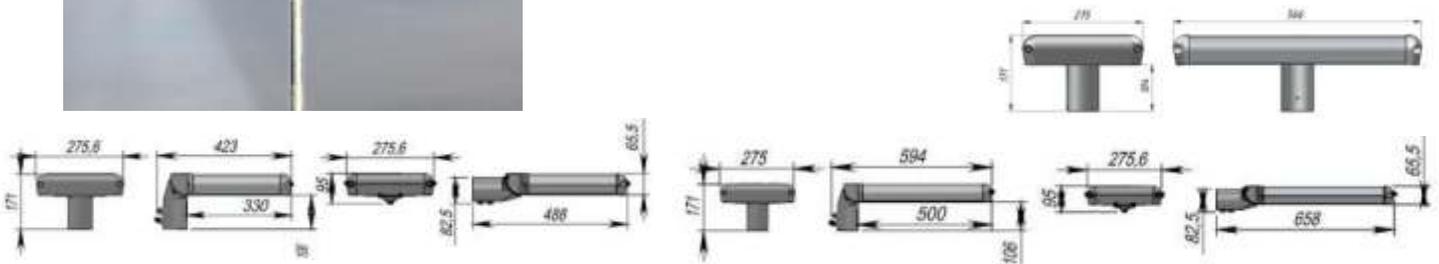


Public lighting is by far the largest cost on municipal energy bills. Dimming the street provides a significant energy and money savings. Many municipalities choose energy-efficient LED lighting solutions. The energy of this is a lot lower. LED bulbs are slightly more expensive to buy, but much longer than the old energy-guzzling lighting. In the long term the municipalities will save a lot of money. The cost of public lighting in the city could fall by 70%.

Public lighting plays an important role in the current and future infrastructure. It provides orientation, gives people a sense of security and provides neighborhoods, streets, parking and business areas an appropriate look.



- PV Module : range 80/330Wp
- LED Light Source : range 15W/116Wp
- GI Pole : range 3/12m height
- HDPE Shaft with iron cover
- PWM Solar charge controller: range 5/25A
- Solar Battery: range 50/300Ah
- Optional: Photo Relay and configurable timer



We are using high efficient Cree LEDs that ensures long lifetime and highest lm/w efficiency in industry.

Basic line of FPE 's using XTE LEDs.

Advanced line of FPE is using XPL LED, for even higher efficiency and better optical performances





Example of possibilities

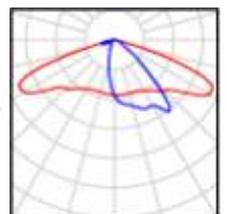
BASIC CREE XT-E

		12 LED	
350 mA	29W (sys)		3.200 lm (LED)
500 mA	41W (sys)		4.300 lm (LED)
		24 LED	
350 mA	15W (sys)		1.650 lm (LED)
500 mA	21W (sys)		2.200 lm (LED)
		36 LED	
350 mA	42W (sys)		4.700 lm (LED)
500 mA	60W (sys)		6.300 lm (LED)
		48 LED	
350 mA	55W (sys)		6.550 lm (LED)
500 mA	79W (sys)		8.850 lm (LED)
		60 LED	
350 mA	67W (sys)		7.800 lm (LED)
500 mA	98W (sys)		10.800 lm (LED)
		72 LED	
350 mA	80W (sys)		9.500 lm (LED)
500 mA	116W (sys)		12.800 lm (LED)

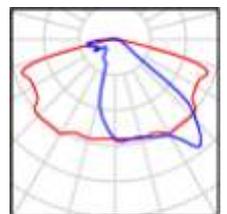
ADVANCED CREE XP-L

		12 LED	
800 mA	34W (sys)		4.150 lm (LED)
900 mA	38W (sys)		4.500 lm (LED)
1000 mA	42W (sys)		4.900 lm (LED)
		24 LED	
800 mA	62W (sys)		8.300 lm (LED)
900 mA	70W (sys)		9.000 lm (LED)
1000 mA	78W (sys)		9.850 lm (LED)
		36 LED	
800mA	92W(sys)		11.600 lm (LED)
900mA	103W(sys)		12.700 lm (LED)

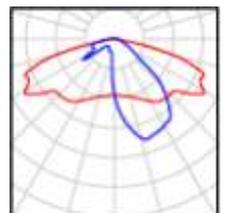
Optic A (with XTE LEDs) Optimised for ME and S road lighting classes



Optic G (with XPL and XTE LEDs) Polar diagrams are slightly different for XPE or XTE LEDs, check elumdata file for details. Optimised for ME road classes and wider roads

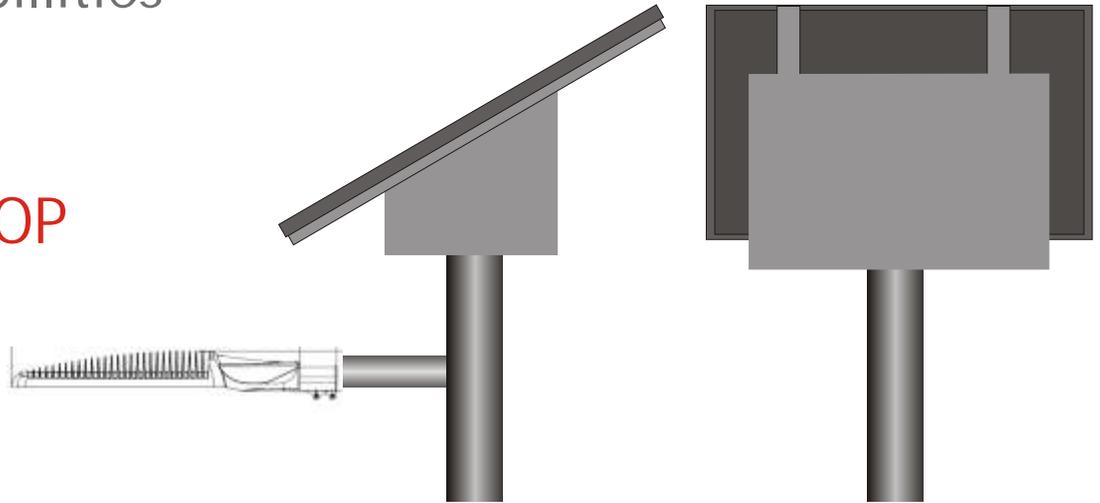


Optic C (with XPL and XTE LEDs) Polar diagrams are slightly different for XPE or XTE LEDs, check elumdata file for details. Optimised for S road classes and narrow roads

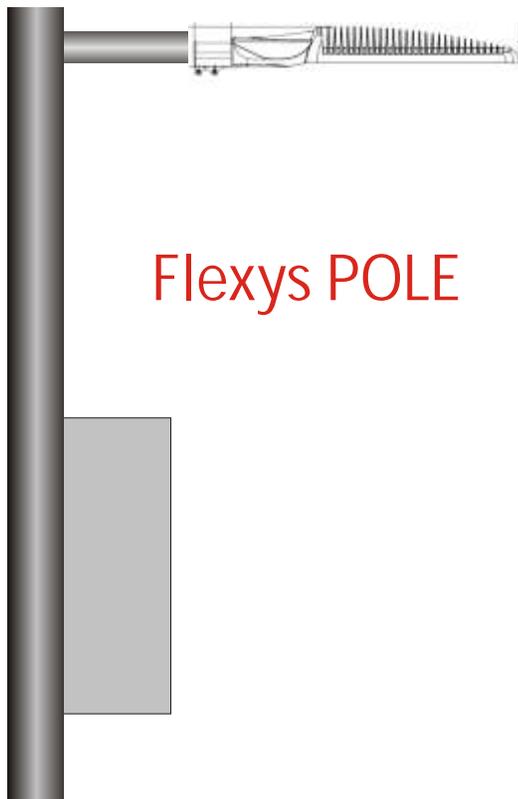


Install possibilities

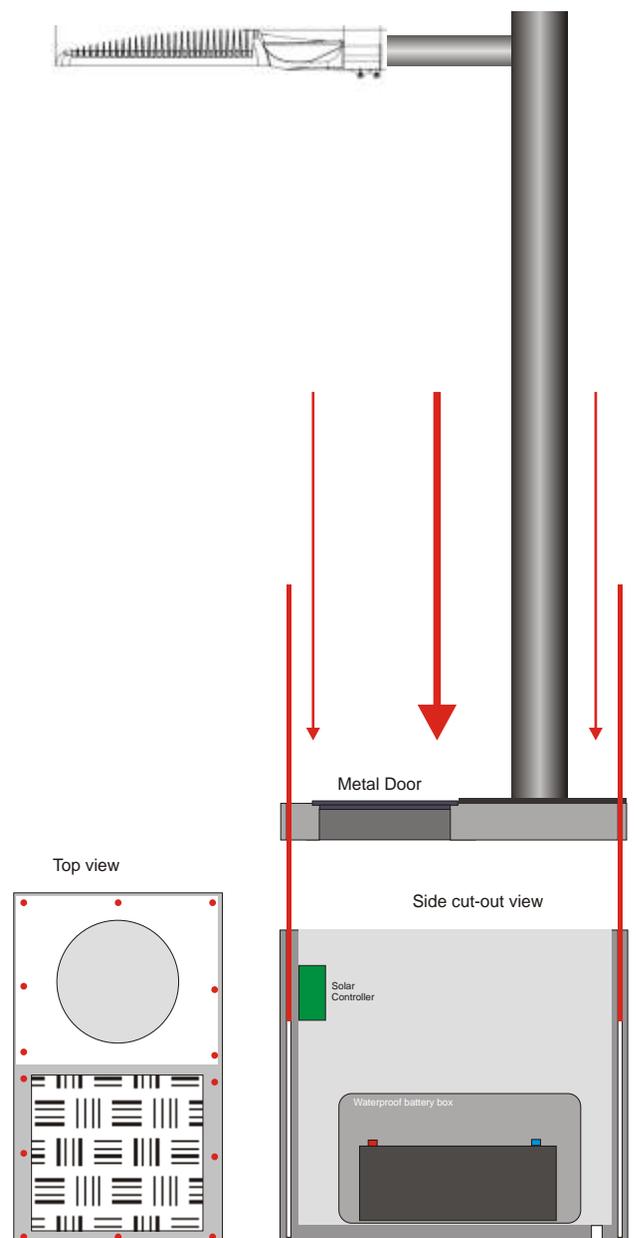
Flexys TOP



Flexys POLE



Flexys Concrete Base



Battery & Controller

IEC 60896-21
IEC 61427



Serie OPzV Bloc

12V 1 Sun Power VR L Bloc	70AH
12V 2 Sun Power VR L Bloc	130AH
12V 3 Sun Power VR L Bloc	200AH
6V 4 Sun Power VR L Bloc	270AH
6V 5 Sun Power VR L Bloc	330AH
6V 6 Sun Power VR L Bloc	400AH

sun | power VR L bloc - series OPzV bloc

Sealed lead-acid battery for cyclic applications

The sun | power VR L bloc batteries are sealed stationary batteries with fixed electrolyte in gel. The construction as sealed batteries makes HOPPECKE sun | power VR L bloc batteries maintenance free relating to re-filling of water. Using tubular plates in combination with gauntlets at their positive tubular plates, HOPPECKE sun | power VR L bloc batteries offer an extreme high cycling expectancy. So they are optimal for application in sectors with high charge and discharge operation load like solar and off-grid applications. The electrolyte of HOPPECKE sun | power VR L bloc batteries is fixed in gel what causes even the option of a horizontal assembly (optional).

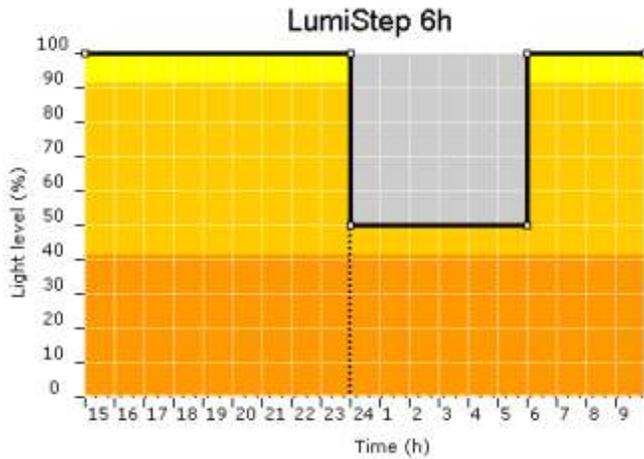
The shock resistant and strengthened Polypropylene housing offers an easy to clean surface and is resistant against all established cleaners. The flat lid with its integrated handle guaranties a very good handling and an easy assembly HOPPECKE batteries of the sun | power VR L bloc type series have a cycling expectancy from up to 1300 discharges with 80% discharge level.



Steca Solarix PRSPRS 1010, PRS 1515, PRS 2020, PRS 3030

The simplicity and high performance of the Steca Solarix PRS solar charge controller make it particularly appealing. At the same time, it offers a modern design and a convenient display, all at an extremely attractive price. Several LEDs in various colours emulate a tank display, which gives information on the battery's state of charge. Here, Steca's latest algorithms are employed, resulting in optimal battery maintenance. The Solarix PRS charge controllers are equipped with an electronic fuse, thus making optimal protection possible. They operate on the serial principle, and separate the solar module from the battery in order to protect it against overcharging. For larger projects, the charge controllers can also be equipped with special functions: e.g. with night light function and selec-table charging plateau and deep-discharge Protection voltages.

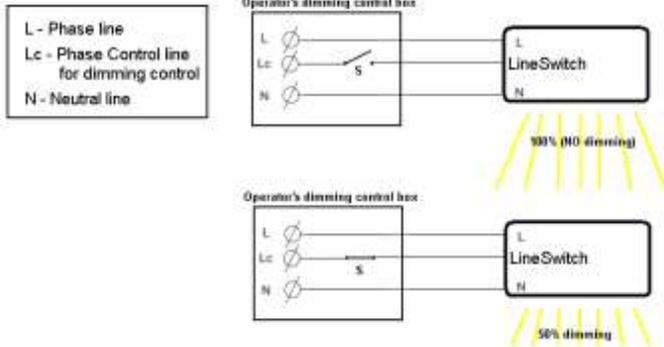
Dimming methodes



LumiStep 6h / 8h

A LumiStep feature provides a simplified version of Autonomous dimming. It is a single level, step-dimming protocol which can reduce energy use by up to 25%. The light level of each luminary is dimmed down to 10% (depending from customer demands) during specific hours of the night. When the installation's on- and off- times are synchronized with sunset and sunrise; LumiStep automatically determines the night midpoint. The dimming protocol offers a choice of a 6 or 8 hour dim period. The 6-hr setting will provide full light until the night midpoint, and then dim for 6 hours before going back 100%.

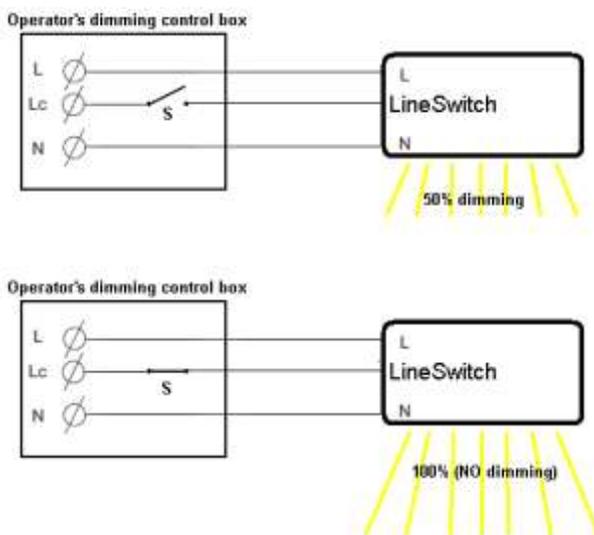
LINESWITCH POSITIVE DIMMING MODE



LineSwitch (Phase dimming) - positive / negative

LineSwitch is a step-dim solution which enables users to dim (to a predefined level by customer) groups of light points via dedicated pilot line wiring (additional phase wire). A cabinet controller signals to the driver via the pilot line (additional phase wire), and LineSwitch changes the light level for all the luminaries connected to that cabinet. It is available POSITIVE or NEGATIVE dimming mode. Positive dimming mode means that luminary is become to dim level when additional Phase line (Lc) is presented in luminary. If Lc doesn't presented, luminary will on with 100%.

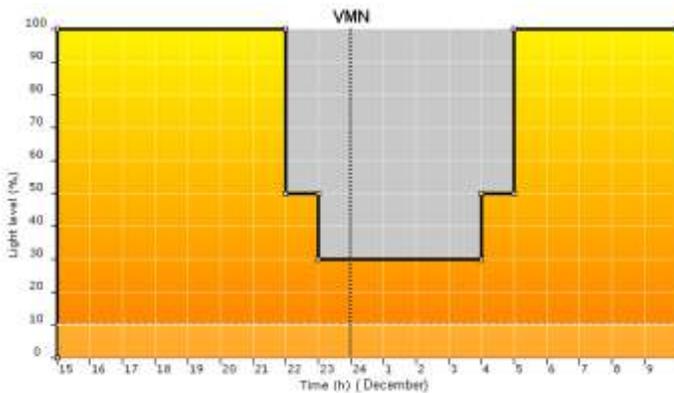
LINESWITCH NEGATIVE DIMMING MODE



Negative dimming mode means that luminary is become to dim level when additional Phase line (Lc) is not presented in luminary.

If Lc presented, luminary will on with 100%.

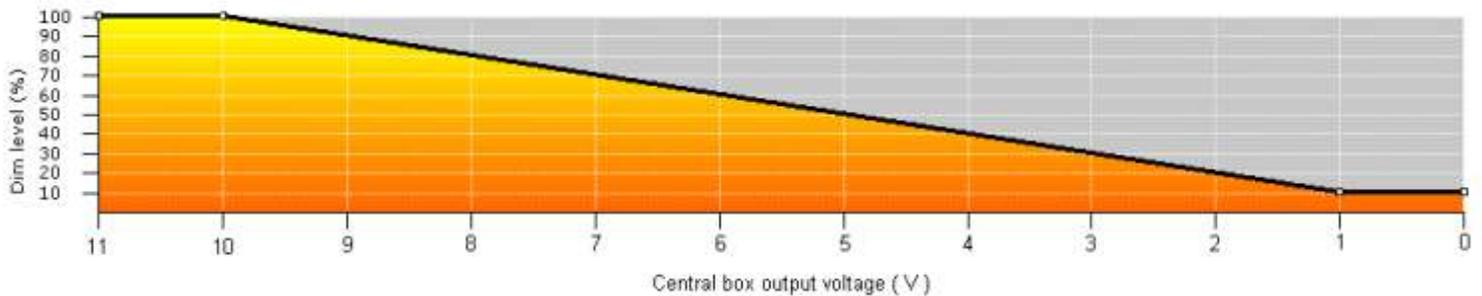
Dimming methodes



Autonomous (Dynadimmer) dimming

Our lamps can have Autonomous 50% reduction to save energy during the hours around midnight, when there is less traffic on the roads or streets. We pre-set (during production process) the lamp driver to dim on specific level(s) fully automatically. No additional management system, astronomic clock or second phase is needed. This setting can be changed later only but luminary should be taken to our company or at the authorized service company.

The driver automatically counts the hours when the lamp is on. Virtual midnight - VMN is in the middle of this period. We set the driver to dim X hours before virtual midnight and can go back to 100% operation Y hour after virtual midnight. Up to 5 actions can be performed over one night. On the left are standard settings. These settings can be changed by client's request.

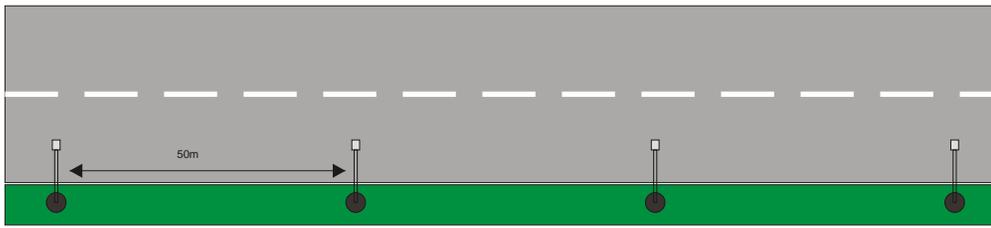


Dimming via 1-10V

When luminary is connected to a central controller 1-10V, the protocol can provide continuous dimming. The protocol can dim down to 10% of light output, delivering substantial energy savings during off-peak hours. 10V from central controller means 100% power of luminary, 1V from central controller means 10% power of luminary (10% dimming).

Control via DALI

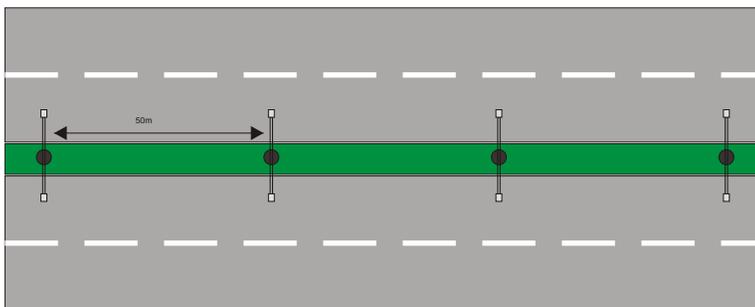
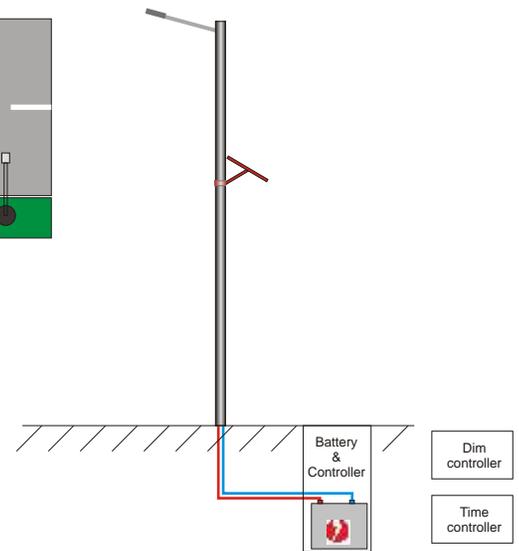
Our luminaries can be connected to a variety of network control systems via DALI. DALI stands for Digital Addressable Lighting Interface, a global open standard communication protocol which defines commands for lighting components. DALI creates twoway communication between each light point in the installation and the network node or controller of a Central Monitoring System (CMS). The system provides control over the lighting and monitors light source and driver status, and enables remote configuration and diagnostics. In addition to DALI, these products offer a choice of dimming protocols. The lighting installation can deliver immediate energy savings with integrated Dynadimmer, and later upgrade to a telemanagement system which will provide detailed data on energy use, component status, lifetime and much more, all without replacing existing luminaires components.



Single system

Poles : 10m height with 1LED lamps 80W
Solar panels = 1 per pole - 250Wp

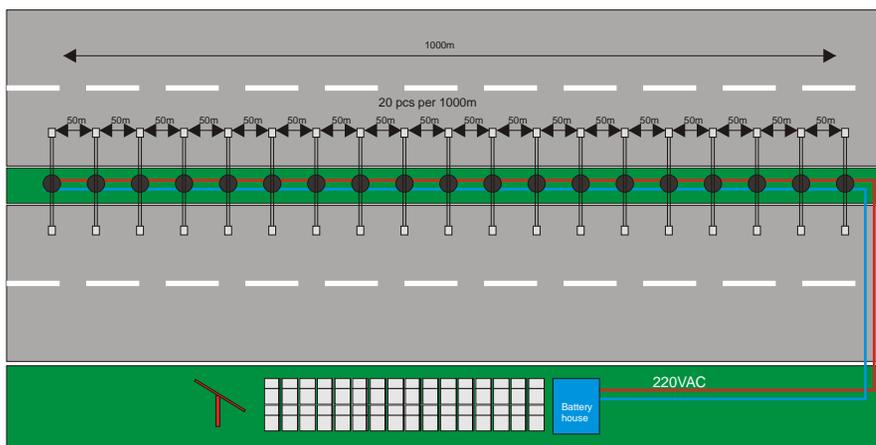
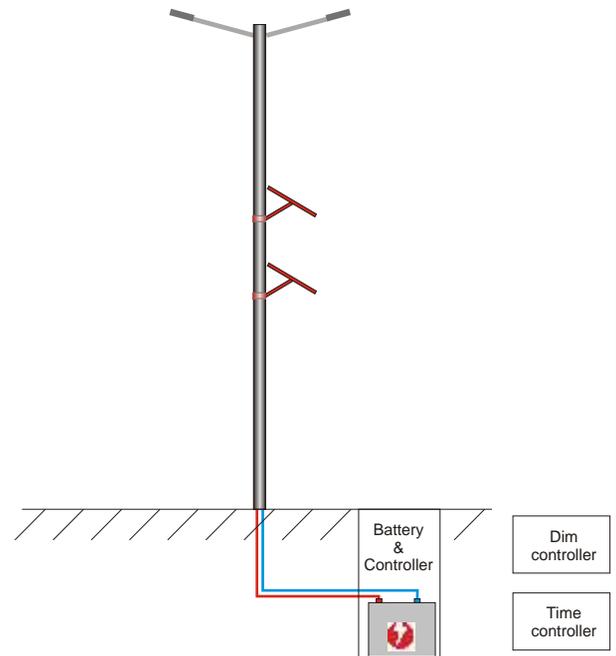
Battery in ground, concrete box with timers, dimmers and controllers



Double system

Poles : 12m height with 2LED lamps 100W
Solar panels = 2 per pole - 250Wp

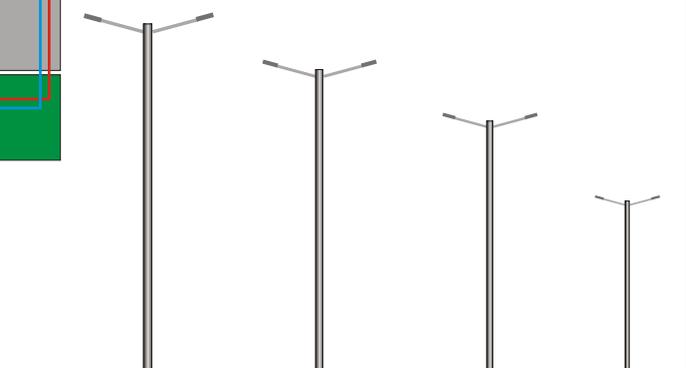
Battery in ground - concrete box, with timers, dimmers and controllers



Group system

Poles : 12m height with 2 LED lamps 100W
Solar panels = 2 per pole x 20 = 40pcs
Type = 250Wp

Battery House with batteries 24V, inverters, timers, dimmers and controllers



Solar LED Bollard light



Ledcon Solar Bollard Lighting, home of the SBL Series Range of outdoor commercial grade solar powered LED bollards, designed and manufactured right here in Europe as an ideal choice for architectural, commercial, and landscape lighting applications.

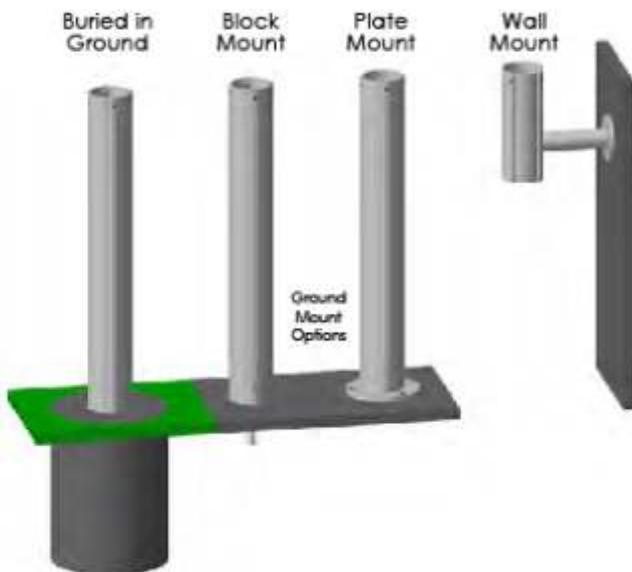
Visual appeal combined with high quality construction and superior solar power performance make the SBL Series an excellent inclusion where VANDAL RESISTANT high quality low level and low maintenance lighting is required.

Hence why Solar Bollard Lighting offer such a diverse range of Vandal Resistant solar powered LED bollards. Our aim is to ensure we satisfy your varying lighting requirements by offering additional reflector designs for light control to pole systems from buried in ground to wall mounted units.

Key Benefits



- Superior vandal resistance
- proven history
- No power bills
- off grid so no power outages ever
- SAFE
- Extra Low Voltage anyone can install
- Provide a green statement reducing carbon emissions
- Low installed cost and minimal site impact
- Virtually maintenance free with no on-going costs
- Removable, relocatable and can be temporary
- Deployment anywhere there is some direct sunshine
- 8 Years of product design expertise and market history
- No trenching, cabling or wiring



Vandal Resistant



No Power Bills



Simple & Low Install Cost



Clean Energy Lighting



Minimal Maintenance



Install Yourself



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Smart LED Concepts

Leds move forward