

Solar Streetlight

STREETSOLAR

Delight in free energy



Optimal operating efficiency

Sustainable CO2-free energy

No electricity costs

No wiring necessary

Weatherproof and UV-resistant

*Highly durable due to
LED technology*



StreetSolar- benefits



Fig.: Solar street light

- Product design
- Light at all places
- Assembling in 1 hour
- No cable laying work
- High economic efficiency
- No energy consumption costs
- Enviroment-friendly
- Image promotion
- Sustainably CO²-free
- high efficiency factor

StreetSolar - Cone of Lights

StreetSolar for places and squares (Art. No.: SS03001)

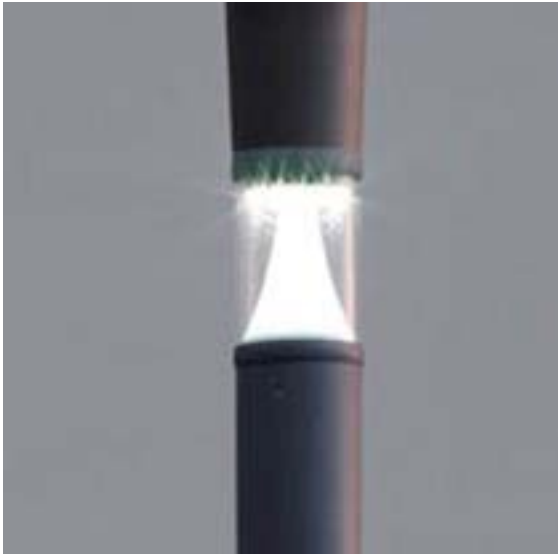


Fig.: Reflector place variant 12 LED arranged in a circle on the blank



Fig.: Circular cone of light

StreetSolar for ways and small streets (Art. No.: SS03007)



Fig.: Reflector way variant 12 LED arranged on one side of the blank



Fig.: Kidneylike cone of light

StreetSolar - Cool and Hot Climate



Fig.: StreetSolar anthracite

StreetSolar for cooler climate

StreetSolar comes in anthracite colour as standard for extra charge all RAL colours are available

Art. No. SS03001 place variant

Art. No. SS03007 way variant

The standard battery is designed for up to 40 degrees celsius.

Art. No. SS03046 standard battery



Fig.: white shank



Fig.: complete white

StreetSolar for hot climate

We recommend the StreetSolar completely in white or in anthracite colour with a white shank for the battery.

Art. No. SS03065 place variant

Art. No. SS03066 way variant

The heat resistant battery is designed for temperatures up to 60 degrees celsius.

Art. No. SS03046 heat resistant battery

StreetSolar – time management



For a most efficient use of battery capacity we recommend as an accessorial service a time management for your StreetSolar free of charge.

3 available possibilities

nr.	function	light power	time
1.	shut down	50%	22.00-5.00
2.	shut down	50%	24.00-6.00
3.	switch off	0%	24.00-5.00

Installation details

- Installation of the StreetSolar including time management should be made during daytime. The solar module needs at least 1 hour daylight. This will ensure that the time management will correctly be activated
- The electronic control takes 8 days in total for complete regulation and to find its way around the different time zones
- Insufficient incident light for instance several days without energy may also affect these parameters and may alter the „self-learning“ process of the control
- As soon as the plug of the battery of the lighting unit is connected to the control the LEDs are triggered to a light output of 50%
- If the photovoltaik module is connected the LEDs turns off
- If the photovoltaik module is disconnected the light output of the LEDs is gradually increased again to 50%

During this setting phase - light intensity and luminous period may vary and possibly not comply with the standard!

StreetSolar - specification sheet

Technical data:

- Total height above ground level: 4.0 m
- Fixture mounting height: 3.2m
- Height of head: 1.0 m
- Total length pole: 3.6 m
- Length of ground embedded part of pole: 0.6 m
- Materials: pole aluminium, head PE weather resistant, long-term stable
- State-of-the-art LED: insect neutral light
- Colour temperature: 5,600 to 6,500 K
- Performance LED in total: 4 W (corresponds to 70W light bulb)
- Luminous flux: > 360 lumen
- LED life: > 50,000 hours
- Lighting duration: up to 15 hours per night, reserve for 3 to 4 nights
- Annual lighting duration: approx. 3,000 hours
- Battery NiMh capacity: 11.0/13.0 Ah; 9.6 V battery charged even with cloud cover
- Total performance battery: 6,500 Ah
- Battery life: 5 – 6 years
- Guarantee/warranty: 2years (incl. battery)

Solar module:

- Proven module technology
- Monocrystalline Silicium cells: 28 cells
- Open-circuit voltage Uoc: 16.9 V
- Short circuit current Isc: 1,830 mA
- Nominal voltage Umpp: 14 V
- Rated current Impp: 1,690 mA
- Power Pmpp: 23.6 W
- Tolerance to P +/-: 3 %
- Size: 328 x 506 x 9 mm
- Efficiency of solar cell: 17 % (sealed-in)
- Weight (module): 2.9 kg

Dimensions and weights for transportation:

- Lighting head in box:
 - size L x W x H: 800x600x340 mm
 - weight : 16 kg
- Pole in round cardboard packing:
 - length: 3,700 mm
 - diameter: 150 mm
 - weight: 16 kg
- KRINNER ground screw in cardboard packing:
 - length: 1100 mm
 - diameter: 150 mm
 - weight: 7.5 kg

Maintenance cycles:

- Recommended replacement of battery: after 6 years
- Recommended replacement of LED: after 12 years

Tools for assembling:

- 1 unit Allen key (Inbus): 4 mm

Possibilities of installation in soil:

- Ground socket
- KRINNER ground screw: 114 x 1000

StreetSolar – surplus value



Fig.: Solar street light StreetSolar

Optionally we offer a complementary service package for the street light StreetSolar including following services:

- 6 years guarantee for the complete light
- Safety screw set as antitheft device consisting of special screws and special screw drivers (incl. preassembling)
- 1 spare battery within the 6 year guarantee term (on-site mounting by customer)
- KRINNER ground screw „G3“ incl. 3 screws and counter-nuts M16 (on-site mounting by customer)

StreetSolar - wall-mounted

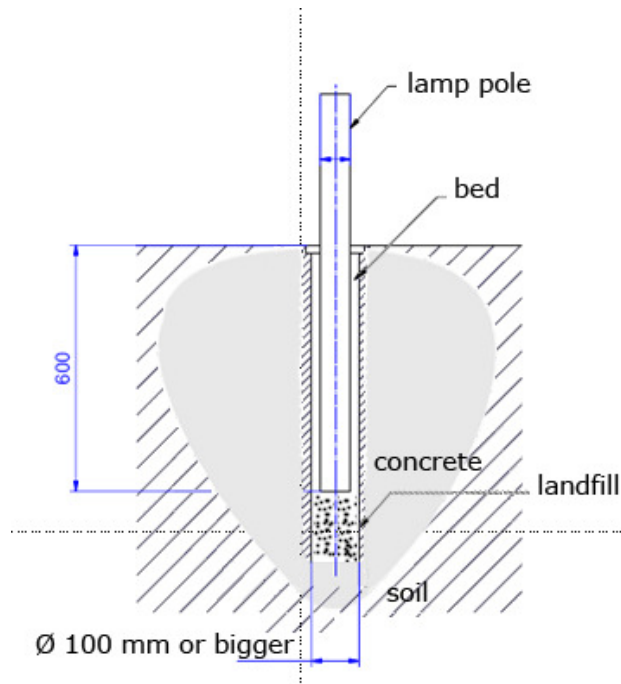


Fig.: StreetSolar Wall bracket

- Wall bracket: aluminium
- powder-coated
- size: 475.5 mm x 250 mm x 120 mm

- optimum fixture mounting height
3.20 m above ground

StreetSolar – installation ground socket



- Material: plastic or concrete tube 100 mm or bigger
- Solid embedding in concrete
- Fill up with gravel or sand to a height of 60 cm
- Place pole, centre to plumb
- Our 10 cm of sand or gravel into socket
- Compact with tamper (iron bar)
- Fill up with dry-batched aggregate, surface dia. Up to 40 cm

Fig.: Installation drawing ground socket

Tips and recommendations for the site selection:

In order to benefit of the highest possible solar electricity yield, you should consider the following points:

- no shading by trees, buildings, etc.
- greatest possible distance to trees
- protection against vehicles (parking or manoeuvring cars) through
 - selection of appropriate site
 - fixing of an additional protection on the pole, such as a metal frame

Preparation before installation into soil:

The following steps have to be made prior to installation into soil:

- get laying drawings of the following pipes and cables:
 - water and sewer pipes
 - gas pipelines
 - cable television lines
- account for flood protection measures in the soil
- verify the solidity of the soil/ground
- inspect the soil by means of a probe
- if needed, pre-treatment of the lower part of the pole with binding medium, e.g. "Agropox Kunststoffmörtel 94", 1 kg/10 kg packs sold in specialist shops

StreetSolar – installation KRINNER – ground screw



- Material: steel, galvanized according to DIN EN ISO 1461
- Length: 1000 mm
- Dia. tube: 114 mm
- Weight: 5.8 kg
- Patented conical body forged from single piece of tubing
- Continuous welded spiral
- More detailed information upon request

Fig.: KRINNER ground screw

Tips and recommendations for the site selection:

In order to benefit of the highest possible solar electricity yield, you should consider the following points:

- no shading by trees, buildings, etc.
- greatest possible distance to trees
- alignment of the module to the south (compass)
- protection against vehicles (parking or manoeuvring cars) through
 - selection of appropriate site
 - fixing of an additional protection on the pole, such as a metal frame

Preparation before installation into soil:

The following steps have to be made prior to installation into soil:

- get laying drawings of the following pipes and cables:
 - telephone earth cables
 - water and sewer pipes
 - gas pipelines
 - cable television lines
- account for flood protection measures in the soil
- verify the solidity of the soil/ground
- inspect the soil by means of a probe

StreetSolar – pole plastic coating



Fig.: Solar street light StreetSolar

The pole of the StreetSolar has been treated with a special coating and meets the following requirements:

- No adverse health effects due to powder coatings. All powder coatings are completely free of any possible health-damaging components
- Equally, no harmful substances are used in the application of conversion coatings during the pre-treatment
- The powder coating is cured duroplastic and therefore almost non-reactive as well as highly durable
- Saltwater resistant powder coating is available on request

WaySolar

with motion detector – ALU Standpipe



Fig.: **WaySolar** with transparent housing and aluminium standpipe

Height

- standard 920 mm
- custom heights available on request

LED illumination

- accent light: 3 small LEDs (available colours: white, yellow, red, blue, green) remain lit throughout the night
- the main light consists of 6 high-power LEDs (white; > 6.000 kelvin) with a light output of max. 1 W each. The main light is activated by a motion detector and the lighting period is preset

Housing

- transparent or calendered plastic
- UV- and impact-resistant, IK10 certified

Standpipe

- powder-coated aluminium
- diameter 160 mm
- various RAL-colours (for extra charge) available

- The special solar module, in combination with a control unit allows a perfect illumination, even after two or three days of rain
- IK10 certified and tested impact-resistant luminaire
- The WaySolar is saltwater- and UV-resistant
- Economically and ecologically seen, WaySolar is the perfekt solution, as it generates its power exclusively from the sun and therefore the costs of maintenance are minimal
- The integrated motion detector activates the six main LEDs when motion within 10 m is detected. In this way, the luminaires are lit in succession and offering fantastic lighting effects

WaySolar

with motion detector – Plastic Standpipe



Fig.: **WaySolar** with calendered housing and calendered plastic standpipe

Height

- standard 920 mm
- custom heights available on request

LED illumination

- accent light: 3 small LEDs (available colours: white, yellow, red, blue, green) remain lit throughout the night
- the main light consists of 6 high-power LEDs (white; > 6.000 kelvin) with a light output of max. 1 W each. The main light is activated by a motion detector and the lighting period is preset

Housing

- transparent or calendered plastic
- UV- and impact-resistant, IK10 certified

Standpipe

- calendered plastic
- UV- and impact-resistant, IK10 certified
- diameter 160 mm

WaySolar with motion detector – specification sheet

Technical data:

- Assembled height above ground: 920 mm and variable height available on request
- Height of luminous spot above ground: 680 mm respectively 890 mm
- Height of head: 300 mm
- Total length of pole: 600 mm

- Materials: aluminium, impact-resistant, IK10 certified PMMA;
- State of the art LED: light does not attract insects
- Colour temperature: > 6.000 kelvin
- Performance LED main-light: 6 pcs. each max. 1 W LEDs
- Performance LED accent-light: 3 pcs. each 20 mA 14,000 mcd, following colours are selectable: white, blue, red, yellow, green

- Luminous flux: > 280 Lumen
- LED life: > 50,000 hours
- Lighting time accent light: up to 15 hours per night, reserve for 3 to 4 nights
- Lighting time main light: motion detector – duration adjustable
- Annual lighting time: approx. 3,000 hours
- Battery NiMh capacity: 4,000 mAh; 6 V battery charges even on cloudy days
- Total performance battery: 3,400 Ah
- Battery life: 5 – 6 years
- Guarantee/warranty: 2 years (incl. battery)

Solar module:

- Proven EPS Soltec module technology
- Polychristalline silicon solar cells: 36 cells
- Open circuit voltage Uoc: 9 V
- Short Circuit current Isc: 570 mA
- Nominal voltage Umpp: 7,5 V
- Rated current Impp: 550 mA
- Power Pmpp: 4,1 W
- Tolerance to P +/- : 3 %
- Size: 183 x 183 x 15,2 mm
- Solar cell efficiency: 17 % (*sealed*)
- Weight (module): 300 g

Dimensions and weight for transportation:

- Leighting head in box:
 - size LxBxH 1.030x320x340 mm
 - weight: 10 kg

KRINNER ground screw in cardboard packaging

- length: 800 mm
- diameter: 76,1 mm
- weight: 3,80 kg

Maintenance cycles

- Recommended battery replacement: after 6 years
- Recommended LED replacement: after 12 years

Assembly tools

- 1 unit allen key (Inbus) 4 mm

Possibilities of installation in soil:

- ground screw

Solar Street Light



MEYLE presents solar lamps for professional application with the most advanced technology.

- Energy saving fluorescent tubes with electronic low voltage converter feature extremely high light output
- Microprocessor controlled energy management allows individual energy saving light programs
- Professional charging technology, using a 120 Watt Solar panel and a temperature compensated charging characteristic
- Hermetically sealed heavy duty lead accumulator for a long, trouble free operation.

The energy saving lamps (2 x 11 Watt, 1 x 5 Watt) are freely programmable in any combination. Hence there are 5, 11 or 16 Watt available.
(The lamps are also available with 1 x 11 Watt, 1 x 5 Watt)

Example:

- Dusk 6 pm to 8 pm, heavy traffic full power
- 8 pm to 10 pm, low traffic 1 x 11 Watts
- 10 pm to 1 am, orientation light 1 x 5 Watts
- Dawn 6 am to 8 am 1 x 11 Watts

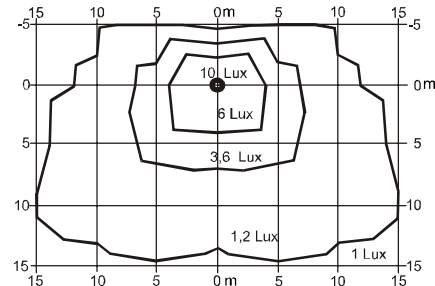
This program requires 8 Ah per day and is available for six days without recharging the battery due to bad weather. In summertime the consumed energy is replaced within 2 hours of sunshine.

Many locations are far away from the public electricity network, remain unlit and present a danger for passers-by. The list of potentially dangerous locations is almost endless:

Parking lots, stairs, underpasses, bus stops, drive ways, cemeteries, parks, pools etc.

Our solar lamps offer reliably light with low installation costs. The installation of our solar lamps is in most cases already profitable just 50 m away from the next electric cable. Our lamps are preassembled (except mast and foundation) and are installed quickly and easily.

Light diagram lamp height 4 m



Configuration

Flourescent tubes	1	2	3
Energy consumption [Watt]	11	5	11
Light power [Lumen]	900	250	900
correlates to standard lamps [Watt]	75	35	75

Scope of delivery:

- Light fixture
- Flourescent tubes
- Mast bracket
- Module holder
- Solarmodule 130 Watt
- Control unit, cable harness
- Battery container and battery

options:

- Mast
- Motion detector, push button
- 3x 11 Watt

