



GPI Solar Park- and Streetlamps

The cost-effective solution with light whenever you need it

- * Each night up to 3 hours.
- * A reliable radar motion sensor switches the lamp off when you're not there.
- * Corrosion and weather-proof.
- * 10 years warranty on post and solar panel.
- * Low transportation and installation costs due to the light weight.

GPI Street lamp 3/1 PP-R

3 hours self-sufficient solar lamp with radar motion detector

- * Lamp post made from **polypropylene (PP-R)**:
 - 63 mm outside diameter
 - colors: black or alternatively stonegrey light
 - **corrosion resistant** against all chemicals occurring in air and soil as well as aggressive gases and liquids: 10 years warranty!
 - post height 3.5 m, including the mounting plate for the solar panels.
 - lamp height 3.0 m
- * 1 PP-R arms and luminaires with clear globes (light spot height approx.. 3 m).
- * 1 energy saving lightbulb with 11 W
- * **Waterproof** control box / battery box in the foot of the lamp
 - (rectangular approx. 400*400*400 mm, or round with approx.. 400 mm in diameter)
- * horizontal and vertical adjustable module mounting plate
- * 1 quality solar module 10W/12Volt - 10 years warranty!
- * **radar motion detector**
 - much more reliable than infrared
 - range 15 meter, 360° radius
 - switch off delay 1 to 5 minutes
- * battery charge regulator "Stecka" (*made in Germany*), with
 - protection against deep discharging of battery.
 - dusk to dawn sensor
 - two programmable switch on and off times, 2 x 6h or 1 x 12h
- * **maintenance-free** seal lead acid battery 12V/26Ah.
 - guarantees up to 3 hours of light for 3 nights even if the sun exposure during the day would not be sufficient for recharging.
- * With ready-made "**plug-and-play**" cable-set. That means easy assembly by simply plugging the cables together.
- * With detailed assembly instructions and manual
- * Available as options are additional time switches

Siam Green Power International Co. Ltd. provides Solar Power Systems for private homes and industries. We offer Design, Project Management, Installation and Maintenance of Solar Power Systems. Our systems are mainly produced in Thailand based on German Technology.



Technical information

The lamp post is made from polypropylene (PP-R).

It offers a multiplicity of **qualitative advantages** regarding construction as well as **economic** deployment:

- Post height is 3 meters, in one piece. Other heights on request
- The post surface is **perfectly smooth** and homogeneous
- The polypropylene material is **corrosion resistant** against all chemicals in air and soil as well as aggressive gases and liquids
- Polypropylene is **not** dissolved by organic solvents
- A slim and **aesthetical** shape!
- Polypropylene is 100% recyclable.
- Post and arms are **dyed through** the full thickness in black (matte) or optional 'stonegrey light'
- Low transportation and installation costs due to **light weight**
- The material is only with difficulty inflammable
- **Environment friendly** production due to small energy consumption
- High mechanical and dynamical **strength**
- Despite of the light weight **resistant** to high wind loads

Production

The polypropylene lamp posts are manufactured using the patented revolver molding procedure.

Security

The static computation of the posts is done according to **DIN 1055** or based on the special conditions at the place of assembly (wind loads). The safety factors are generous.

The dynamic firmness of the material is very good due to the **high elasticity** and strong vibration damping.

Design

The lamp is designed after the **ornate** Italian **Valencia** style road lamps. Alternatively it is available also in a modern plain pipe Design.

For orders of more than 1000 lamps you can choose **your own design**. Only if such a design would increase the material employment the price is to be adapted.

Warranty

Due to the high quality of the components used the GPI solar lamps have an unusually **long guarantee** period:

- * regulators/dimmers/starters 2 years
- * Battery 2 years
- * energy-saving lightbulb 1 year
- * solar panel **10 years** warranty
- * PP-R pole **10 years** warranty

Special Options

For orders with a volume of more than 2000 lamps GPI sends a team of 2 men **onsite** for 2 days, **free** of charge, for **training** and briefing in installation and maintenance.