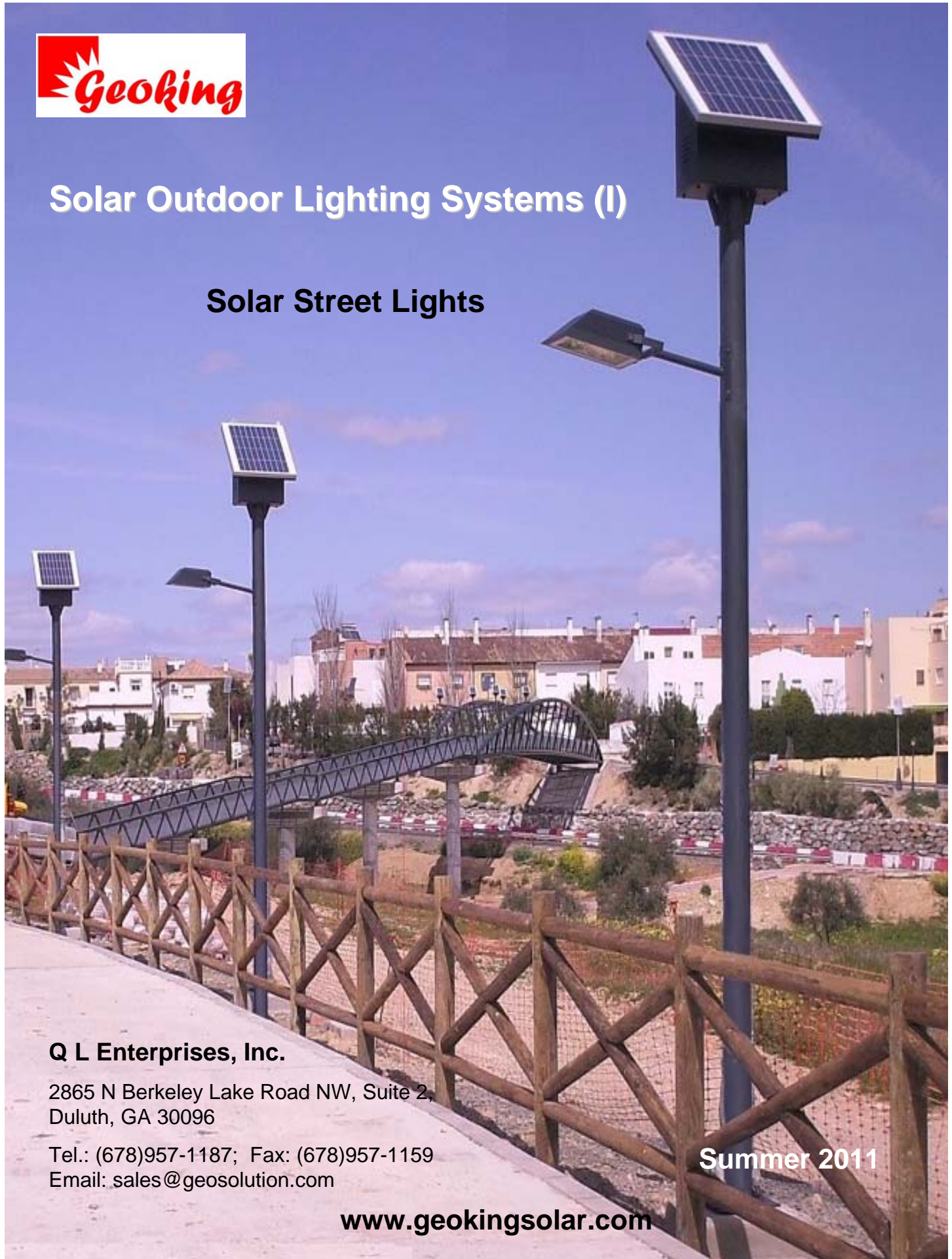




## Solar Outdoor Lighting Systems (I)

### Solar Street Lights



**Q L Enterprises, Inc.**

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**Summer 2011**

[www.geokingsolar.com](http://www.geokingsolar.com)



## Solar Street Lights

[www.geokingsolar.com](http://www.geokingsolar.com)

### Product Overview:

The Geoking Solar off-grid solar lighting systems are well-designed to illuminate large areas with highest intensity of light. Geoking Solar offers a wide variety of solar lighting configurations and styles to meet your specific need.

### How It Works:

The major components of the Geoking solar lighting systems include high luminary LED, solar PV modules (solar panels), batteries, and intelligent controllers. The solar panel captures sun light during daytime and passes it through the charge controller to store the sun power in the battery. The battery releases power to the LED and other system electronics. The microcontroller monitors and modifies all the components to keep the system in good condition.

### Features and Benefits:

1. The battery enclosure and light pole are well integrated; batteries are self-contained to the upper or lower of the pole.
2. Solar panel: with 20 years warranty of no less than 80% power.
3. Battery enclosure with solar panel can be rotated in different directions to get max sunshine. Enclosure has louvers on two sides for hot releasing.
4. Lamp: High quality LED bulbs have over 50,000 hours operation time and high luminous. The lamp cover is made of quality aluminum; reasonable design makes hot releasing more effectively. The system is IP65 weather-proof.
5. Battery: Maintenance free, with 5-8 years lifespan and 3 years warranty.
6. Power Control: Light control, half power output control, timer control, and electricity control.
7. Structure: Pole and battery enclosure are made of quality steel, with hot galvanizing treatment, painted with corrosion protection and environmental friendly powder painting materials. The whole system can be disassemble for transportation.
8. Easy installation, and easy set up.

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## Solar Street Lights (Premium Series)

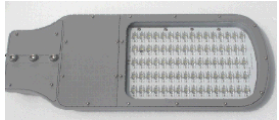

[www.geokingsolar.com](http://www.geokingsolar.com)

Geoking Solar Premium Street Lights are those systems come complete with a Solar Electric Power Assembly. These power assemblies are sized by the lamp power consumption times the hours of operation and takes into account how much sun is available in a geographic area. Each self contained power assembly uses the best quality solar modules which are bonded into a single array with sealed GEL batteries and all control electronics. The fixture lamp choices are 40 to 60 Watts using high power LED lamps.



### Benefits of Solar Lighting:

- Eliminates trenching or running power to lights
- 100% energy independent
- 4-5 days of battery storage (autonomy) standard
- Meets 130 MPH wind force requirements
- High quality PV modules with TUV/UL certification
- High brightness LED lamp, 100-110 lm/w Luminous, with Color temps. 6,500°K
- Over 50,000 hour lifespan for LED
- Compartment IP65 design, die cast and waterproof
- Using smart lighting control system to enhance light output performance, including timer control, light control, half power output control
- Easy installation, plug and play
- Not subject to power outages

Model #	Lamp Image	Pole Height	PV Module	LED Lamp	Battery
GK-850		8m 26.2ft	240W	60W (6600lm)	12V/200Ah
GK-750		7m 23ft	160W	42W (4620lm)	12V/150Ah

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## Solar Street Lights (Basic Series)

[www.geokingsolar.com](http://www.geokingsolar.com)

### Geoking Basic Series Solar Street Lights Overview:

The basic series solar street lights are normally 18-20 feet high, with 120W solar panel, and 30-36W high power LED lamp.

#### Features:

- High quality PV modules. 120W Mono or Poly-crystallite Solar Panel.
- High Power 30-36W LED lamps, light span more than 50,000 hours.
- Luminous: 100-110 Lm/w; Color Temp: 6500K.
- Battery enclosure integrated with PV mount.
- Enclosure position can be set on top of the pole or at the bottom of the pole.
- Compartment IP65 design, die cast and waterproof.
- Easy installation, plug and play technology.
- Smart control system including timer control, light control, half power output control.
- Maintenance-free AGM battery and 3-5 days power reserve.

### Great Designs of the LED Lamps:



**GK-518**



**GK-519**



**GK-Villa**

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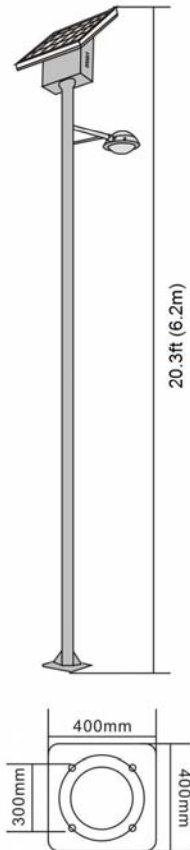
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## Solar Street Lights (Basic Series)

[www.geokingsolar.com](http://www.geokingsolar.com)



### Solar Street Light GK-518

#### Parameters

height	6.2M (20.3 Ft)
solar panel	120Wp
battery	12V/150Ah
light	36 W LED
control mode	timer/light control/half power control
luminous	100-110Lm/W
color temp	6500k
working temp	-40°C--+80°C
IP class	IP 65
install distance	20 - 25 M (65 - 85 Ft.)



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## Solar Street Lights (Basic Series)

[www.geokingsolar.com](http://www.geokingsolar.com)



### Solar Street Light GK-518F

#### Parameters

height	6.2M (20.3 Ft)
solar panel	120Wp
battery	12V/70Ah×2
light	36W LED
turbine power	24V 300W
control mode	timer/light control/half power control
luminous	100-110Lm/W
color temp	6500k
working temp	-40℃-+80℃
IP class	IP 65
install distance	20 - 25 M (65 - 80 Ft.)



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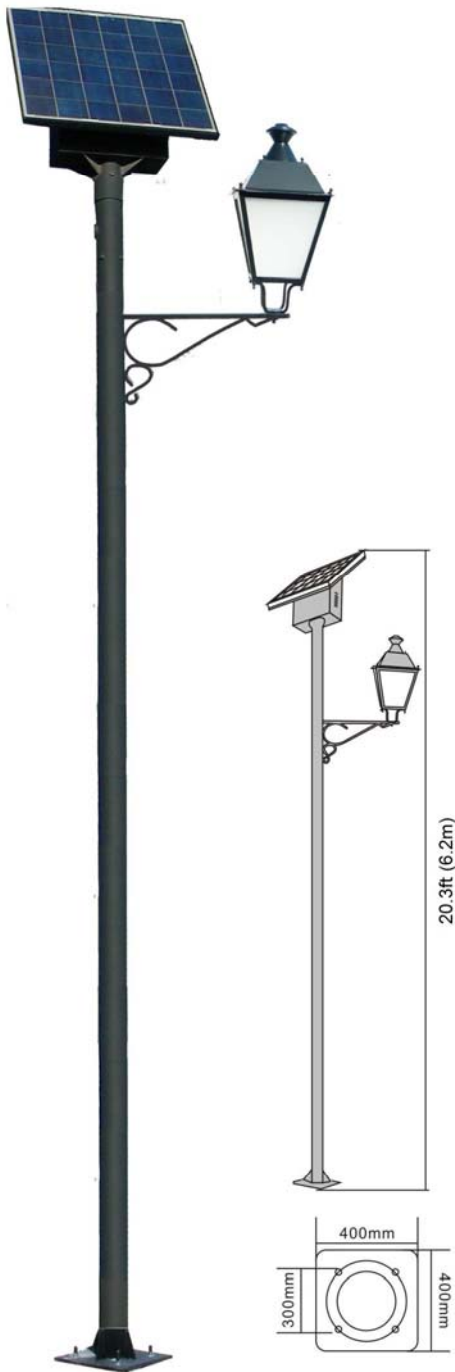
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## Solar Street Lights (Basic Series)

[www.geokingsolar.com](http://www.geokingsolar.com)



### Solar Street Light GK-Villa G

#### Parameters

height	6.2M (20.3 Ft.)
solar panel	120Wp
battery	12V/150Ah
light	36W LED
controlmode	timer/light control/half power control
luminous	100-110Lm/W
color temp	6500k
working temp	-40°C-+80°C
IP class	IP 65
install distance	20 - 25 M (65 - 85 Ft.)



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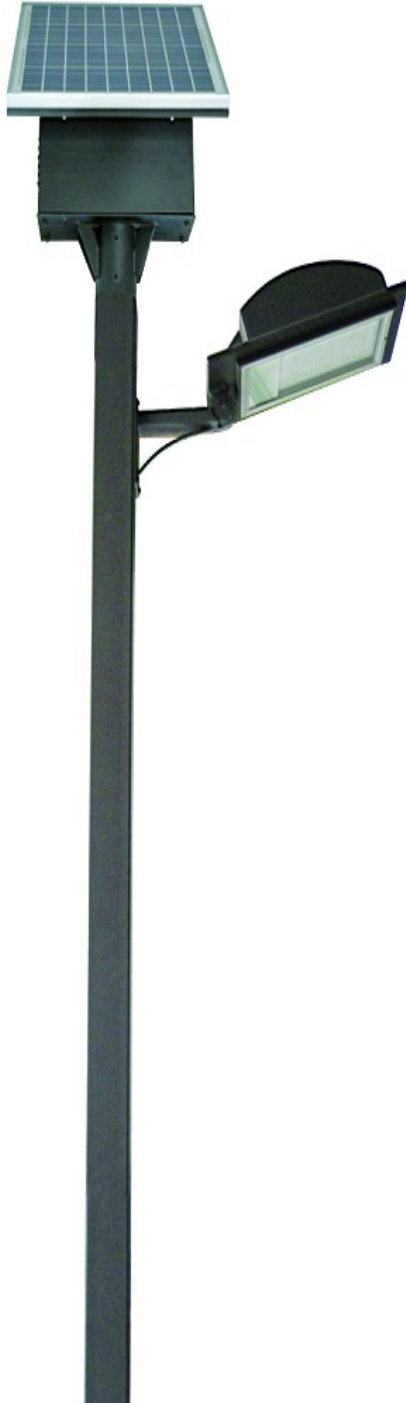
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## Solar Street Lights (Basic Series)

[www.geokingsolar.com](http://www.geokingsolar.com)



### Solar Street Light GK-519-5

#### Parameters

height	5.0 M (16.5 Ft.)
solar panel	100Wp
battery	12V/100Ah
light	30W LED
controlmode	timer/light control/half power control
luminous	100-110Lm/W
color temp	6500k
working temp	-40°C--+80°C
IP class	IP 65
install distance	20 - 25M (80-90 Ft.)

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## Solar Pathway Lights

[www.geokingsolar.com](http://www.geokingsolar.com)

The Geoking solar pathway lights are an elegant, energy-efficient way to light your way. The ultra-bright LED bulbs, with new technology for improved efficiency and light, are powered by the built-in solar powered batteries. While those maintenance-free batteries are powered by mono or poly crystalline solar panel.

### Specifications

Light height: 3.8 – 4.3 meters (12.5 – 14.1 feet)

Rechargeable Battery: Maintenance-free Lead-Acid 12V/65Ah

Solar Panel: 17.2V 60W Polycrystalline PV

Battery Enclosure: integrated with PV mount, compartment IP65 design, die cast and waterproof

Light Source: High power 16 – 20W LEDs. LED light span more than 50,000 hours

Smart Control System: timer control, light control, half power output control.



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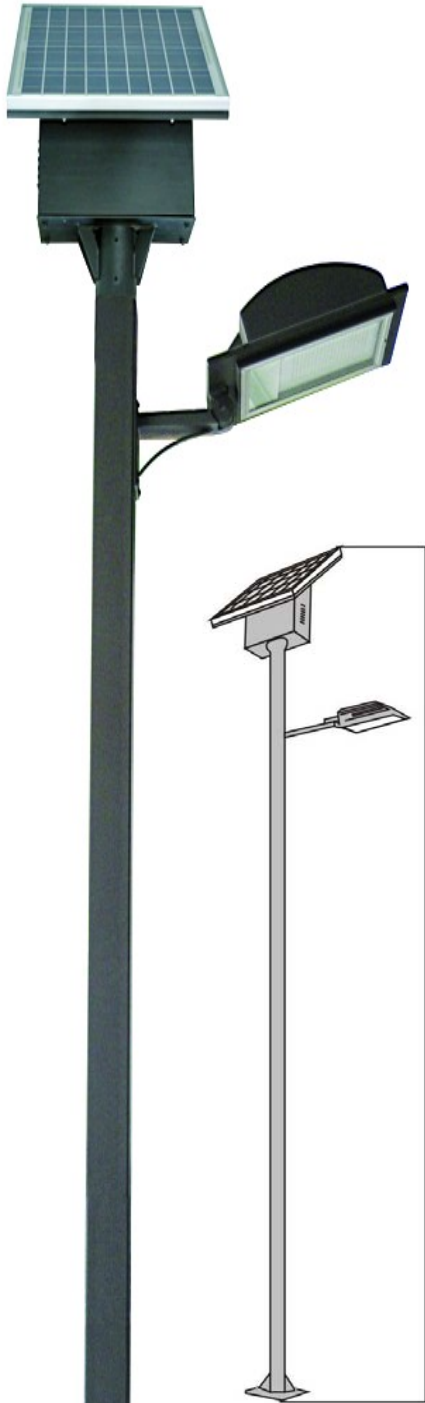
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## Solar Pathway Lights

[www.geokingsolar.com](http://www.geokingsolar.com)



### Solar Street Light GK-519

#### Parameters

height	4.3 M (14.1 Ft.)
solar panel	80Wp
battery	12V/65Ah
light	20W LED
controlmode	timer/light control/half power control
luminous	100-110Lm/W
color temp	6500k
working temp	-40°C-+80°C
IP class	IP 65
install distance	15-20M (65 - 80 Ft.)

#### Q L Enterprises, Inc.

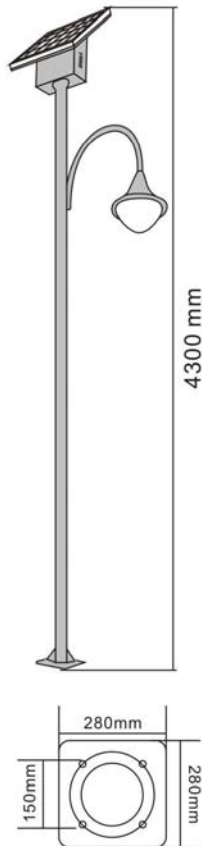
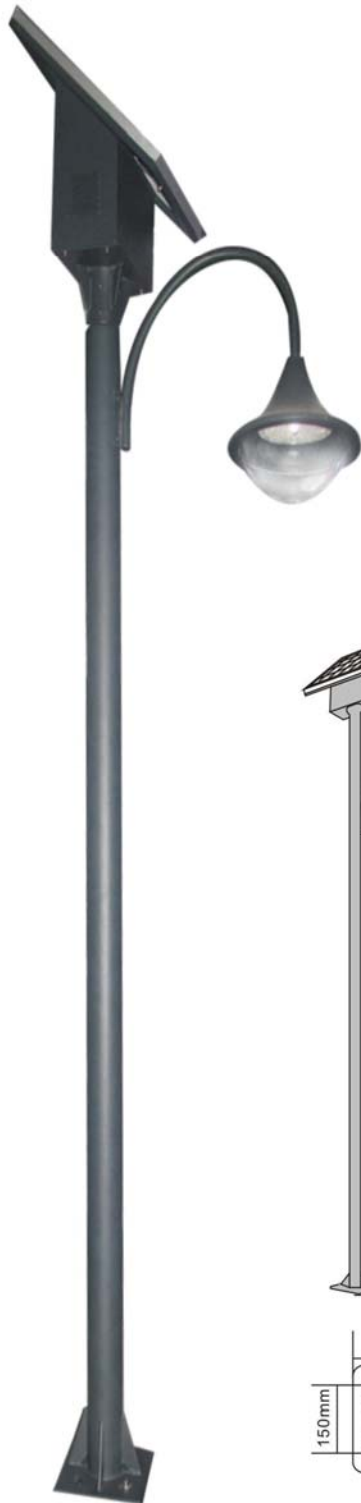
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## Solar Pathway Lights

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### Solar Street Light GK-523

#### Parameters

height	4.3M (14.1 Ft.)
solar panel	60Wp
battery	12V/65Ah
light	15W LED
controlmode	timer/light control/half power control
luminous	100-110Lm/W
color temp	6500k
working temp	-40°C--80°C
IP class	IP 65
install distance	15-20M (65 - 80 Ft.)



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## Solar Pathway Lights

[www.geokingsolar.com](http://www.geokingsolar.com)



### Solar Street Light GK-523S

#### Parameters

height	4.3M (14.1 Ft.)
solar panel	60Wp
battery	12V/65Ah
light	8W LED X 2
controlmode	timer/light control/half power control
luminous	100-110Lm/W
color temp	6500k
working temp	-40°C-+80°C
IP class	IP 65
install distance	15-20M (65 - 80 Ft.)

#### Q L Enterprises, Inc.

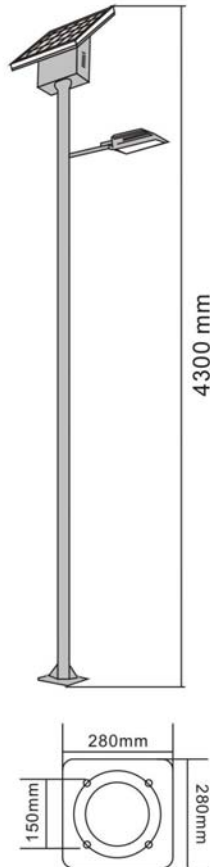
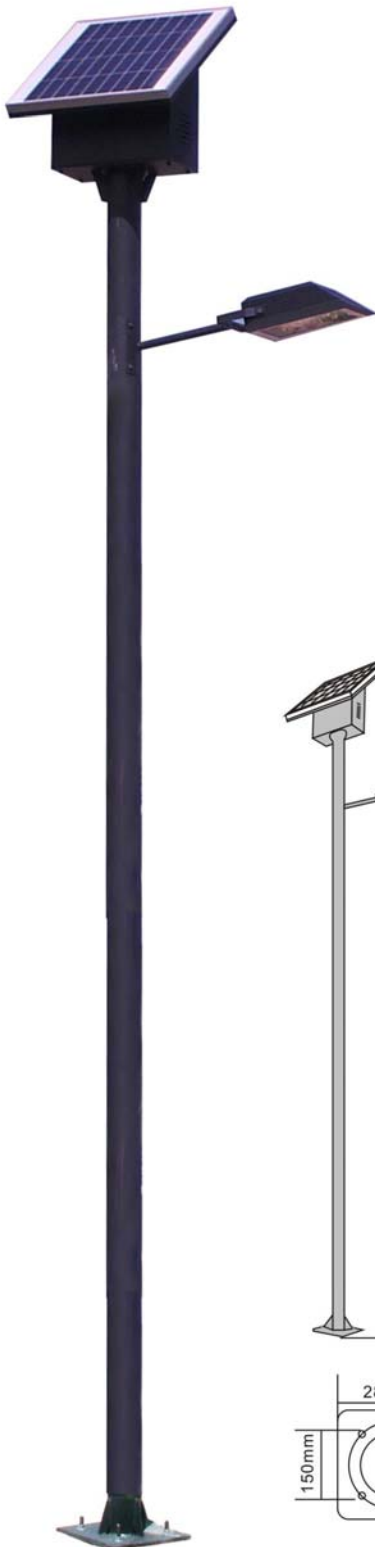
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## Solar Pathway Lights

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### Solar Street Light GK-550X

#### Parameters

height	4.3 M (14.1 Ft.)
solar panel	40/60Wp
battery	12V/65Ah
light	15W LED
controlmode	timer/light control/half power control
luminous	100-110Lm/W
color temp	6500k
working temp	-40°C-+80°C
IP class	IP 65
install distance	15-20M (65 - 80 Ft.)



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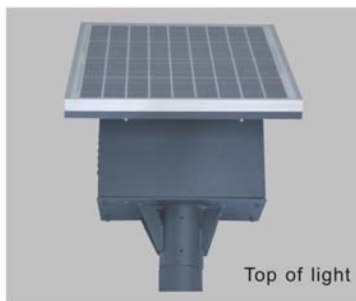
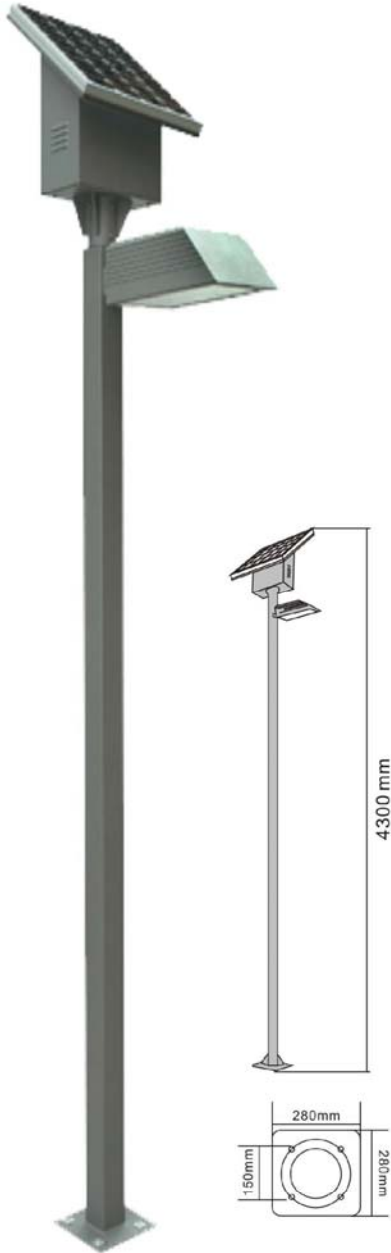
## Solar Pathway Lights

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### Solar Street Light GK-560

#### Parameters

height	4.3 M (14.1 Ft.)
solar panel	40/60Wp
battery	12V/65Ah
light	15W LED
controlmode	timer/light control/half power control
luminous	100-110Lm/W
color temp	6500k
working temp	-40°C--80°C
IP class	IP 65
install distance	15-20M (65 - 80 Ft.)



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## Solar Garden Light

[www.geokingsolar.com](http://www.geokingsolar.com)



### Solar Garden Light GK-563

#### Parameters

height	3.8 M (12.5 Ft.)
solar panel	35 W
battery	12V/ 38Ah
light	10W LED
controlmode	timer/light control/half power control
luminous	100-110Lm/W
color temp	6500k
working temp	-40°C--+80°C
IP class	IP 65
install distance	15M (65Ft.)

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