

The following are product specifications that were taken directly from the manufacturer's website: <http://www.solarilluminations.com/>

SL01 Solar 'High-Lux' Street Light (Complete With 20', 26' or 33' Pole)

TECHNICAL SPECIFICATIONS

GENERAL

Operating voltage is 24 v. DC.

Operating temperature -40 deg. F ~ 125 deg. F.

Special control system to prevent over-charging and over-discharging.

Power consumption of the 744 LED system is 24v / 1.6A / 38W

Power consumption of the 972 LED system is 24 v / 2.1A / 50W

Generally, approximately 5 hours of strong direct sunshine will enable a full charge.

Illumination time is up to 12 hours or more, generally dusk to dawn.

Typically dusk to dawn illumination in most geographic locations.

Several successive cloudy or alternating overcast days typically will not affect illumination time.

A photocell (light sensor) controls automatic on and off illumination, when required.

BATTERY CAPACITY

Two 12 v. DC lead acid or GEL type batteries

Battery capacity is subject to the specification of the system.

Battery capacity is from 100 Amp/Hr to 120 Amp/Hr. each battery.

Battery approval - UL Listed.

Battery type is rechargeable, maintenance free, sealed lead acid or GEL type.

Battery dimensions vary subject to battery capacity.

Battery weight will vary subject to battery capacity.

Typical battery life is approximately 3-4 years subject to environmental factors.

Over charge and over discharge protection system.

Each battery voltage maintained at or below 14.2 v. DC maximum and at or above 11 v. DC.

Each battery charge voltage is programmed to 16.9 v. DC.

The size of the solar panel will affect the capacity of the battery required.

The amount of LED's within the lamp head will affect the capacity of the battery required.

SOLAR PANEL

Highly efficient polycrystalline solar panel made by Sharp, in Japan.

UL Listed & IEC approved.

Aluminum frame with anti-aging and encapsulated.

Low reflecting tempered glass.

Wattage of solar panel is subject to the specification of the system

Wattage available from 140w to 290w.

The 140w solar panel is rated at 34v / 4.2A.

The 180w solar panel is rated at 34v / 5.3A.

Typical solar panel life is approximately 15-20 years subject to environmental factors.

The geographic location of the street light will affect the size/wattage of the solar panel required.

The amount of LED's within the lamp head will affect the size/wattage of the solar panel required.

LAMP UNIT (LIGHT HEAD)

Fitted with 744 to 972 LED's (subject to desired specifications).

All LED's are white. Amber or white/amber or other LED color temperatures possible, via special order only and at extra cost.

Each LED has a light output of greater than 8000 mcd and approx. 6 Lux (Lumens per square metre). Each LED is rated at 3v dc and 15mA.

744 LED lamp provides approx. 4500 Lux (Lumens per square metre) or approx. 358 Candela.

972 LED lamp provides approx. 6000 Lux (Lumens per square metre) or approx. 517 Candela.

Using a 20' (6 metre) pole, average light pattern will provide approximately 40 Lux (Lumens per square metre) or 3.7 fc/ftc.

Using a 26' (8 metre) pole, average light pattern will provide approximately 30 Lux (Lumens per square metre) or 2.7 fc/ftc.

Using a 33' (10 metre) pole, light pattern will provide approximately 20 Lux (Lumens per square metre) or 1.7 fc/ftc.

744 LED lamp is recommended for 20' (6 metre) pole, but LED quantity can be increased or decreased by special order.

744 or 972 LED lamp is recommended for 26' (8 metre) pole, but LED quantity can be increased or decreased by special order.

972 LED lamp is recommended for 33' (10 metre) pole, but LED quantity can be increased or decreased by special order.

Other LED quantities within the lamp are available by special order.

Polarity protected circuitry.

LED life is typically 100,000 hours or equal to about 22 years.

No bulb changes unlike other street lights.

Removable LED circuit board with easy plug-in connections.

Fixture attaches to the arm which in turn attaches to the post or pole.

Silver/gray color finish.

Custom colors by special order only.

ARM

Galvanized steel arm to accommodate the lamp unit (light head).

Attaches to the post or pole.

Can be ordered to attach to an existing post, pole or for wall or building mount.

Silver/gray color finish.

Custom colors by special order only.

POST / POLE

Galvanized steel pole with base unit to enable secure installation.

Fixing bolts for base not included.

Pole height available in several choices, approximately 20', 26', 33' etc. (6m, 8m, 10m etc.)

Custom height pole by special order only.

Silver/gray color finish.

Custom colors by special order only.

BATTERY BOX

Galvanized steel battery box will accommodate the rechargeable battery.

Welded anchor plates or pre-drilled holes to enable secure installation.

Silver/gray color finish.

Battery box is approx. 21" x 15" x 8" (LxWxD).

Custom colors by special order only.

INTERCONNECTING CABLING

Connection wiring between the battery box, solar panel and lamp unit is included.

PHOTOMETRICS

744 LED lamp at 20' (6 Metres)

4464 Lumens at source, approximately.

Approximate Lux distribution:

At the base of the 20' (6 Metre) pole, 1 metre forward = 47 Lux.

2 metres forward =49 Lux, 3 metres forward =46 Lux, 4 metres forward =40 Lux, 5 metres forward =33 Lux, 6 metres forward =25 Lux, 7 metres forward =14 Lux.

At the base of the 20' (6 Metre) pole, 1 metre to the left or 1 metre to the right = 42 Lux.

2 metres left/right =37 Lux, 3 metres left/right =27 Lux, 4 metres left/right =15 Lux, 5 metres left/right =12 Lux, 6 metres left/right =10 Lux, 7 metres left/right =4 Lux.

At the base of the 20' (6 Metre) pole, 1 metre to the rear = 38 Lux.

2 metres rear =32 Lux, 3 metres rear =26 Lux, 4 metres rear = 20 Lux.

972 LED lamp at 26' (8 Metres)

5832 Lumens at source, approximately.

Approximate Lux distribution:

At the base of the 26' (8 Metre) pole, 1 metre forward = 38 Lux.

2 metres forward =37 Lux, 3 metres forward =32 Lux, 4 metres forward =32 Lux, 5 metres forward =19 Lux, 6 metres forward =16 Lux, 7 metres forward =14 Lux.

At the base of the 26' (8 Metre) pole, 1 metre to the left or 1 metre to the right = 32 Lux.

2 metres left/right =26 Lux, 3 metres left/right =18 Lux, 4 metres left/right =16 Lux, 5 metres left/right =13 Lux, 6 metres left/right =9 Lux, 7 metres left/right =6 Lux, 8 metres left/right =4 Lux.

At the base of the 26' (8 Metre) pole, 1 metre to the rear = 38 Lux.

2 metres rear =32 Lux, 3 metres rear =26 Lux, 4 metres rear = 16 Lux.

ORDERING

This is a 'special order' product and our special order Terms, Conditions & Policies apply.

If product is in stock order can be released within approximately 5 business days.

If product is not in stock, order can be released within approximately 60-90 business days.

For smaller orders, 100% payment must be made in advance, at time of order and is non-refundable.

For larger orders, payment may be made as a 50% non-refundable deposit with the 50% balance payment must be paid when order is ready to ship.

This product is non-returnable unless faulty during the warranty period. In such circumstances only the faulty part need be returned for repair or replacement only. No refunds. All sales are final.

QUALITY ASSURED

This street light is manufactured in a 'Quality Assured' facility to high standards and accredited with the internationally recognised standard BS.EN.ISO9001:2000

WARRANTY/GUARANTEE

One year limited warranty against manufacturing defects and/or failure (excluding rechargeable battery, if supplied).

Warranty/guarantee excludes deliberate and/or accidental damage. See our general Terms, Conditions & Policies for more information.

INSTALLATION

Installation guide included.

Upon curbside delivery, installation is entirely at the risk of the customer and/or the customer's appointed installer.

SERVICE/MAINTENANCE

Service & maintenance is entirely at the risk of the customer and/or the customer's appointed servicer/maintainer.

Generally, Solar Illuminations, carries all necessary spare parts to allow the servicing and maintenance of this product for the foreseeable future.

SPECIAL FACTORY ORDER

It must be noted that if this product is not in stock at our warehouse and/or is confirmed as a 'special factory order', then an order processing time of 60-120 business days must be allowed for the order to be processed, manufactured and shipped. For an estimated supply timeframe or for an availability status you must contact us first. If you do not contact us before ordering then you must allow for order processing time. If the product is confirmed as 'in stock' then the order is usually processed and shipped within 7-14 business days.

Time length of night time illumination is estimated and subject to various factors including geographic location, seasons, weather conditions & location of product etc.

Shorter illumination time due to one or more of the above factors does not define the fixture as being defective or define the fixture as being advertised incorrectly.

We advertise and supply our solar lights to customers all over the world are therefore, naturally, we are unable to guarantee the nightly illumination time as it can vary and any time stated is quoted as 'up to' x amount hours.

Minor errors & omissions must be accepted.

Although unlikely, we reserve the right to supply this product with any minor alterations or minor changes to the specifications (shown above by text description or by photographs) due to different supplies or product batches received, incorporating such product changes made by the manufacturer, without further notice.

Descriptions, specifications and photographs are updated regularly but may not be current when minor changes to a product have only recently been made.

All solar lights must be used in a completely dark location at night time otherwise they may not illuminate. Nearby strong lighting sources or ambient lighting may affect the operation of a solar light. This does not define the fixture as being defective.

Descriptions, specifications and photographs are updated regularly but may not be current when minor changes to a product have only recently been made.