

SL12

Solar 'Eco-Lux' Street Light Complete System

TECHNICAL SPECIFICATIONS

Manufactured in an ISO9001:2008 'Quality Assured' facility.

GENERAL

- Operating voltage is 24 v. DC.
- Operating temperature -40 deg. F to +125 deg. F.
- Special control system to prevent over-charging and over-discharging.
- Power consumption of the 384 SMD/LED system is 24v / 1.1A / 27W
- Generally, approximately 5 hours of strong direct sunshine will enable a top-up charge.
- Illumination time is up to 12 hours or more, typical dusk to dawn illumination.
- Typical dusk to dawn illumination in most geographic locations.
- Several successive cloudy or alternating overcast days typically should not affect illumination time.

LAMP UNIT (LIGHT HEAD)

- Fitted with 384 Cree® SMD/LED's. 8 Lumens per SMD, Light output is 3072 Lumens.
- All SMD/LED's are white at approx. 5500 to 6000k color temperature. Amber or white/amber or other LED color temperatures possible, via special order only and at extra cost.
- Each SMD/LED has a light output of greater than 8000 mcd and approx. 8 Lux (Lumens per square metre).
- Each SMD/LED is rated at 3v dc and 15mA.
- SMD/LED life is typically up to 100,000 hours or equal to about 22 years.
- No bulb changes unlike other street lights.
- Removable SMD/LED circuit board with easy plug-in connections.
- Fixture attaches to the arm which in turn attaches to the post or pole.
- Silver/gray & white color finish.
- Custom colors by special order only.
- The lamp head is cobra style and is approximately 32" x 14" (at widest) x 8" (at highest) L x W x D.

ARM

- Galvanized steel support arm to accommodate the lamp unit (light head).
- Can be ordered for retro-fitting to an existing pole or post.
- Wall mount bracket is available by special order.
- Silver/gray color finish.
- Custom colors by special order only.
- The support arm is supplied with hardware to allow it to clamp around a pole or various diameters.

POST / POLE

- A 20' (6 metre) standard grade galvanized steel pole is included.
- Pole has a square flat base (flat plate) with pre-drilled holes for installation.
- The square base of the pole is approximately 12.5" x 12.5" (320mm x 320mm).
- Fixing bolts/anchors are included.
- Wind load rating for pole is 110 MPH with a 1.3 gust factor.
- Two templates for setting the fixing bolts into new, wet concrete are included.
- The templates for aligning the anchors are approx. 12.5" x 12.5" (320mm x 320mm).
- The bolt pattern (diagonal distance from one hole center to another) is approx. 12.75" (323mm).
- The 4 pre-drilled holes on each template are approx. 3/4" (20mm) diameter.
- Pole height available in several choices, approximately 20', 26', 33' etc. (6m, 8m, 10m etc.)



Two Year*
Warranty ✓

Low Price
Guarantee ✓

No Hassle*
Returns ✓

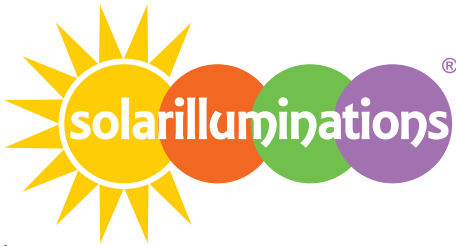
Worldwide
Shipping ✓

Lifetime
Tech Support ✓

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MONDAY - FRIDAY 10.00AM - 4.00PM (US EASTERN TIME)

www.solarilluminations.com • sales@solarilluminations.com



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- Custom height poles are available by special order only.
- The top of the pole has an outside diameter of approximately 3" (76mm) and tapers outwards towards the base.
- Silver/gray color finish. Custom colors by special order only.
- The pole diameter will vary depending upon the height. A 20' pole has a diameter of approx. 6" at its base decreasing down to approx. 3" at the top.
- Typically the pole requires a concrete foundation of approximately 1 cubic yard (3' x 3' x 3'). The location, wind factor and ground condition will affect the size of the foundation required.



BATTERY CAPACITY

- 24v DC systems use two 12v sealed lead acid, AGM or GEL type rechargeable batteries.
- Battery capacity is subject to the specification of the system.
- Battery capacity is 50 Amp/Hour each battery.
- 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.
- Please note, if you do not install or use this product for several months the battery may discharge naturally on its own. By allowing a battery to deep discharge it may cause irreversible damage as the battery may then lose the ability to recharge or hold a full charge. Periodic charging is always recommended when a product is not being used or when the solar panel is disconnected.



CHARGE CONTROLLER/TIMER (PROGRAMMABLE CONTROL MODULE)

- This system includes a programmable control module and regulates and manages the solar panel power, battery power and illumination timer.
- The compact control module has LED indicators to display status, input connections for solar panel and batteries and output connections for the lamp.
- User programmable illumination time of up to 1 to 12 hours or dusk-to-dawn setting (where conditions permit).
- Default setting is typically dusk to dawn.
- User or installer can set the control module to run from dusk and then shut off after a certain amount of hours.
- For example from dusk for 4 hours then switch off, or run from dusk for 6 hours then switch off.
- Instructions are supplied should the user or installer need to program or re-program the module*.



BATTERY BOX

- Galvanized steel battery box will accommodate the rechargeable battery.
- Supplied with hardware to enable it to clamp around the pole and be positioned almost anywhere on the pole.
- Silver/gray color finish.
- Typically it is approx. 21" x 15" x 8" (L x W x D).
- Custom colors by special order only.
- Connection wiring between the battery box, solar panel and lamp unit is included.

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