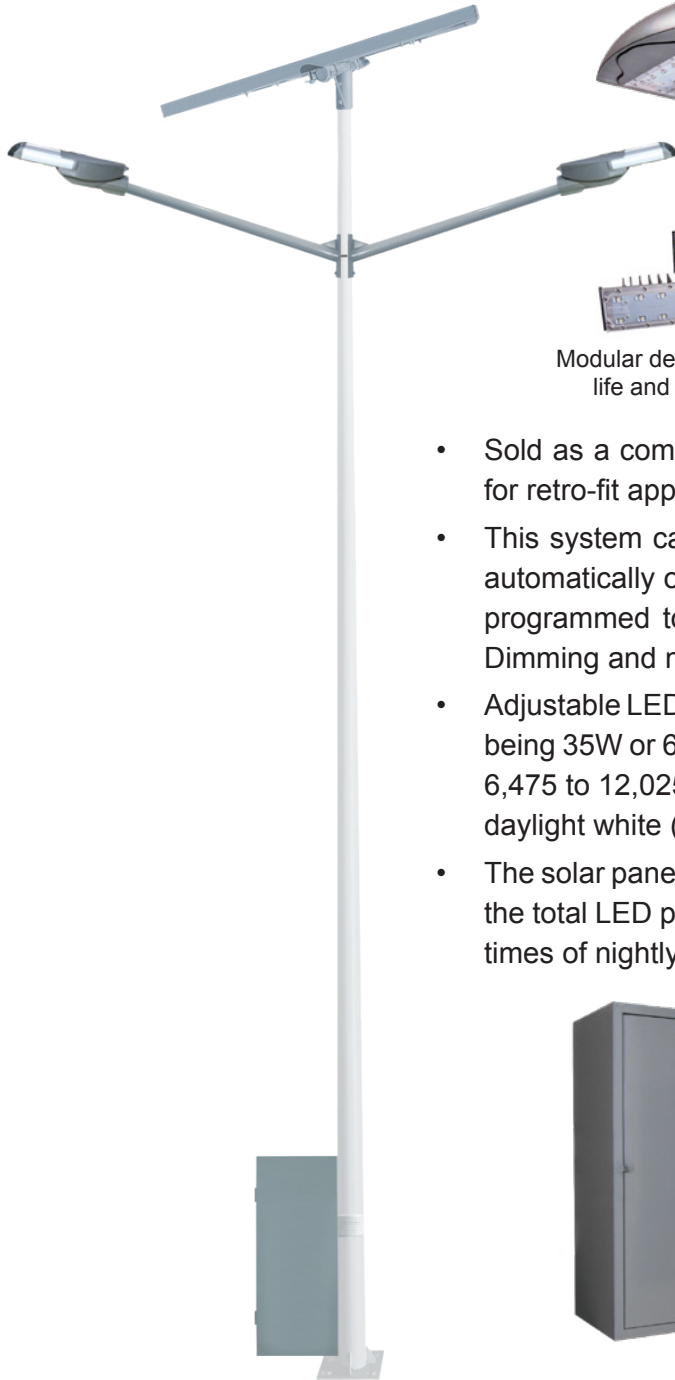




SL37

SOLAR LED STREET / PARKING LOT / AREA LIGHT
35W To 65W LED Double LED Lamps - Complete System Without Pole



Supplied Without Pole



Modular design allows for longer life and greater efficiency.



Philips LUMILEDS® LUXEON T
Up to 185 lm/W efficiency.



- Sold as a complete, dual lamp lighting system without a pole. Ideal for retro-fit applications. See model SL36 if a pole is required.
- This system can be designed, engineered, and pre-programmed to automatically operate from dusk to dawn all year round. Or it can be programmed to operate for a single or dual timed modes instead. Dimming and motion detection are optionally available.
- Adjustable LED power between 35W to 65W per lamp. Typical options being 35W or 65W, with Type II, III, or V distribution. Light output from 6,475 to 12,025 lumens, per lamp. Choice of warm white (3,000k) or daylight white (5,500k). Other CCT options by special order.
- The solar panel size (wattage) and battery size (capacity) is based on the total LED power, geographic location of the site, and the hours or times of nightly operation.



*SUBJECT TO OUR TERMS & CONDITIONS, AND RETURNS POLICY

Lowest Price*
Guarantee ✓

Worldwide*
Shipping ✓

10 Year*
System Warranty ✓

20 Year*
Panel Warranty ✓

Lifetime*
Tech Support ✓

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Solar Makes Sense

Using a solar lighting system is often **cheaper than trenching** cables to remote sites or through parking lots, under roads and sidewalks.



No monthly bills for electric usage, meter fees, or taxes.

Federal and local incentives may be available to offset the cost of the system. View our website for current incentives.



Renewable energy. Use the suns unlimited power as a clean source of renewable energy.

Green Image. Let people know your company or organization is doing its part in reducing its reliance on unclean energy.



Purchase with Confidence



Established in 2002 with offices and warehouse located in Fort Myers, Florida where we store, assemble, ship, and support our products.



We stand behind our systems with a 20 year limited warranty on the solar panels, and a 10 year limited warranty on the system.



Our superior customer service and support is proven with our A+ rating with the Better Business Bureau.



Technical support is available for life! We'll be here to assist you with support and troubleshooting if the need arises.

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PHILIPS
LUMILEDS



LUXEON™
never before possible

DARK SKY
COMPLIANT LIGHTING
Full Cutoff Light Fixture



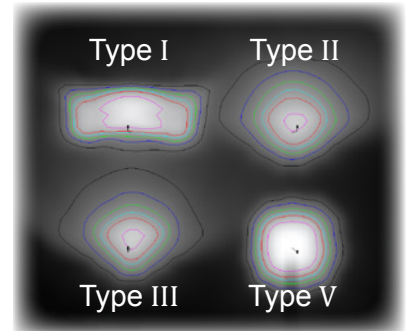
Philips LUMILEDS LUXEON T LED emitters produce up to 185 lumens per Watt efficiency and have a life span greater than 100,000 hours of operation.



65 Watt LED Lamp - Philips LUMILEDS® LUXEON T
Provides approx. 12,025 lumens of light output per lamp.



35 Watt LED Lamp - Philips LUMILEDS® LUXEON T
Provides approx. 6,475 lumens of light output per lamp.



Each lamp is supplied in one of four different lighting distributions: (Type I, II, III, or V).

The standard power ranges offered can be adjusted using the optional dimming feature of the charge controller. For example 65W lamp can be permanently reduced to 30W, or it can be reduced for a set period of time each evening. The illumination schedule and dimming feature can be customized to work for many different lighting scenarios.

- Configured with one or multiple LED modules each containing 14 Philips LUMILEDS® LUXEON T LEDs.
- LED color is daylight white (5,500K) or warm white (3,000K). Other CCT options available by special order.
- LED life expectancy is typically up to 100,000 hours or equal to about 22 years.
- LEDs are powered by an internal driver with integrated PWM dimming control and multi-driver redundancy.
- Full cut-off fixture and Dark Skies Compliant.



Easy Access to Driver and Connections



Vented Design for Ideal Heat Dissipation



Supplied with Stainless Steel Hardware



Adjustable Arm from 0°, 10°, or 15° for Increased Projection

Lowest Price* **Guarantee**

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Solar Panel

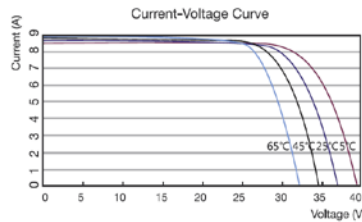
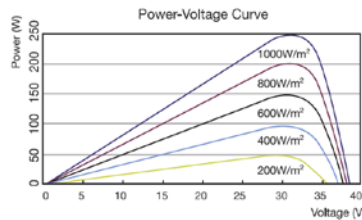
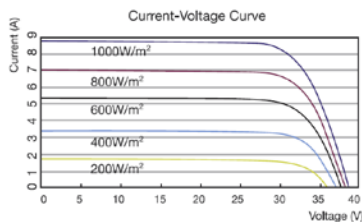
Systems are supplied with high quality monocrystalline or polycrystalline solar panels with the highest performance and efficiency. They are designed to endure the harshest environments, and are guaranteed to provide power for well over 20 years. Typically manufactured in the USA, Canada, or Germany. The solar panel power is subject to LED consumption, installation location, and illumination period. Please consult with our engineers for specific solar power recommendations.

MC4 Connector



Photovoltaic Module

- Highly efficient monocrystalline or polycrystalline solar panel with aluminum frame, anti-aging, and encapsulated membrane.
- Anti-reflective and anti-soiling surface that reduces power losses from dirt and dust.
- Certified to withstand high wind loads (340PSI) and snow loads (780PSI); and resistance to high salt and ammonia.
- Manufactured to international standards, verified and certified by independent testing laboratories. (UL, ETL, IEC, MCS, & TUV)
- Assembled to strict quality control standards; international standards ISO 9001 and ISO 14001.
- Range of solar panel power available from 100W to +500W.
- The solar panel power is subject to LED consumption, installation location, and illumination period. Please consult our engineers for specific solar power requirements.
- Solar panels can be supplied in a single or dual format (2 x 70W = 140W, 2 x 100W = 200W etc.)
- Typical solar panel life is over 30 years, subject to environmental factors.



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“EastPenn batteries are engineered and tested to provide reliable, long-lasting power for Photovoltaic (PV) and renewable energy applications where frequent deep cycles are required and minimum maintenance is desirable.”



Made in the USA



Battery

- Manufactured by: East Penn Manufacturing Co. Inc.
- 100% made in the USA.
- System supplied standard with two 12 Volt batteries. Batteries are wired in series to make a 24 Volt system.
- Available battery capacities range from 50Ah to 245Ah (per battery).
- Choice of two battery types: Absorbed Glass Mat (AGM) or Gel Cell.
- Please consult our engineers for specific battery capacity requirements.
- Classified as Non-spillable (defined by DOT, ICAO and IATA), NonHAZMAT, and valve regulate.
- Conforms to ISO9001, ISO/TS 16949, and ISO14001 standards.
- Typical battery life is approximately 5 to 7 years, subject to environmental factors.

VRLA Technology

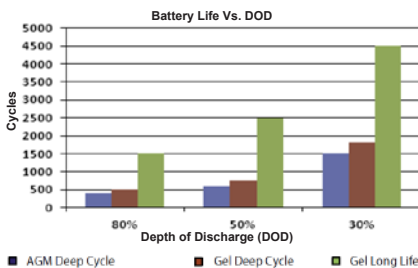
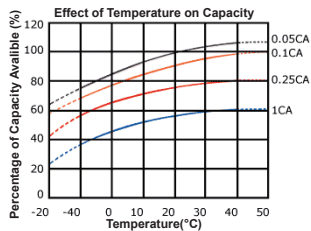
VRLA batteries are maintenance free for life. VRLA stands for Valve Regulated Lead Acid, which means the batteries are sealed. Gas will only escape through the safety valves in the case of overcharging or cell failure.

AGM and Gel batteries have exceptional discharge recovery, even after deep or prolonged discharge. However, it should be noted that repetitive deep discharge and prolonged deep discharge have a negative influence on the service life of all lead acid batteries.

Gel batteries in general have a longer service life and better cycle capacity than AGM batteries.

Please Note: The rated capacity of our AGM or gel deep cycle batteries refer to 20 hour discharge rate (i.e. 0.05CA). Most products actually operate near, or at a 100 hour discharge rate (i.e. 0.01CA) and thus actual available battery capacity is slightly higher than the advertised rate.

The total available battery power is measured in watt-hour (Wh) or V*Ah. When comparing our total battery capacity with competitor's, please note that the battery capacity from a 12V system is not interchangeable with the battery capacity of a 24V system. However, the total battery power (i.e. watt-hours) is always comparable provided the correct system voltage is considered during calculation.



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20 Year*
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Maximum Power Point Tracking

Supplied standard with the most advanced and sophisticated MPPT charge controller technology. Allowing for full system programmability and light control; including active dimming and intelligent battery management. MPPT technology increases power generation by up to 30% during inclement periods, and intelligent battery management provides extended battery life and extra protection against excessive discharge.

MPPT Control Module

- The MPPT controller will improve energy harvest by up to 30% compared to PWM charge controllers. Especially in the case of cold cloudy winter weather, when light intensity is changing continuously.
- Offers full programmability of load output: dusk to dawn, multi-timed mode, and integrated dimming (all standard features).
- Intelligent battery management software is used to protect the battery from being excessively discharged. The controller will monitor the state of charge on the battery, and if needed, day by day slightly increase the load disconnect level (i. e. disconnect the load earlier) until the harvested solar energy is sufficient to recharge the battery to nearly the full 100% at least once a week. Allowing for the longest life possible from the batteries.
- Controller size and ratings are subject to solar panel and battery specifications.
- *Supports real time data monitoring, 30 day performance history, and user programmability from Apple or Android smartphones, tablets, etc. Use of this feature requires the optional MPPT Bluetooth Dongle.

The comprehensive light control system allows for extensive configuration, including dynamic activation and optional dimming. Lighting activation is controlled by the charge controller and solar panel. Dimming of the luminaire is adjusted by percentage, i.e 100% is equal to full power, 50% is equal to half power, etc.

Dusk Till Dawn	
Single Time Operation	
Single Time Operation	
Dual Time Operation	
Single Time Operation w/ dimming	
Dual Time Operation w/ Dimming	
Multiple Dimming Operation	

*The lighting control options are variable, and not all options are listed. If you require a specific control operation not listed, please contact one of our engineers to verify feasibility.
 **A midnight feature is available as a timed operation parameter. Midnight is determined by calculating the middle of the night and does not necessarily mean 12AM (although it will be close). It also can be adjusted earlier or later by X number of hours.



*Real time data monitoring, 30 day performance history, and user programmability from Apple or Android smartphones.



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Performance

Operating voltage is 24 Volts. DC.

Power consumption is 35 or 65 Watts per lamp (subject to model selected).

Operating temperature -40 deg. C ~ +80 deg. C (-40 deg. F ~ 175 deg. F).

Intelligent battery management software to prevent over-charging and over-discharging.

Includes a minimum of three to five days of autonomy (battery back-up).

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

Supplied solar panel power is based on installation location and system requirements.

Illumination period can be designed to meet specific requirements.



Hardware & Pole

Battery Enclosure



NEMA 3R

- Galvanized steel lockable battery enclosure will accommodate the rechargeable batteries and charge controller (padlock not included.)
- Designed to conform to NEMA 3R and IP22 rating standards for Outdoor Enclosures. Offering protection against rain, snow, and sleet. Meets the requirements of UL 508 "Rainproof enclosures".
- The battery enclosure can be mounted onto, or at the base of the pole, subject to battery selection.
- Enclosures with batteries larger than 92Ah will need to be mounted at the base of the pole.
- The enclosure has pre-drilled holes to enable secure installation to a concrete pad.
- For pole mounting, the battery enclosure includes mounting plates with slots for U-bolts or stainless steel banding.
- Silver/gray color finish. Custom colors by special order.

Arm



- Galvanized steel arm mounts the luminaire to the light pole.
- Choice of arm length available.
- Can be attached in any direction and any height on the pole.
- Silver/gray color finish. Custom colors by special order only.

Pole

- Sold without a pole for retrofit applications. Consider product SL36 if a pole is required.



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