

FL17 SOLAR SHELTER / COVERED WALKWAY / CANOPY LIGHT SYSTEM

10W, 15W, 20W LED Lamp(s) & Complete Solar System



Samsung® LED Technology
Up to 140 lm/W efficiency.



IP65, Vaporproof, UL Listed
& Vandal Resistant Enclosure

Our enclosed light fixtures are great for locations where electricity is unavailable or too expensive to install. This system is ideal for illuminating shelters of all kinds including canopies, covered walkways, bus stops, mail kiosks, recreational buildings, sheds, storage areas, etc.

Sold as a complete system and includes all necessary components for a typical installation. Luminaire power consumption is adjustable from 5 to 20 Watts. Total light output ranges from 690 to 2640 lumens per lamp.



*SUBJECT TO OUR TERMS & CONDITIONS, AND RETURNS POLICY



Worldwide*
Shipping ✓

Lowest Price*
Guarantee ✓

5 Year*
Product Warranty ✓

Lifetime*
Tech Support ✓

20 Year*
Panel Warranty ✓

5611 Halifax Avenue • Fort Myers • FL • 33912 • USA • Phone: 239-461-5522 • Fax: 239-337-7887

MONDAY - FRIDAY 9.00AM - 5.00PM (US EASTERN TIME)

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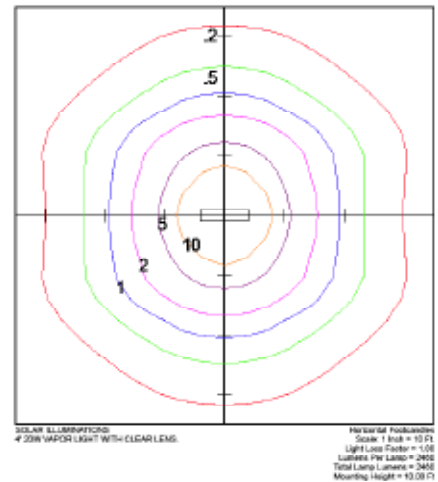
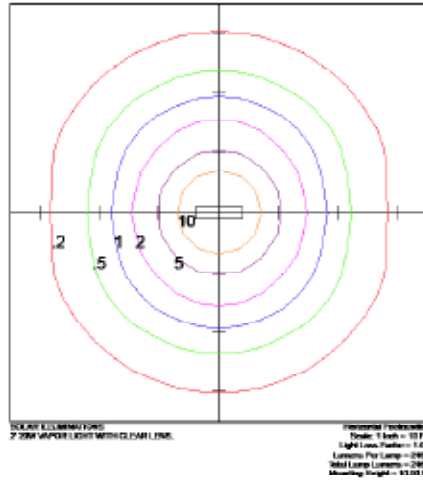
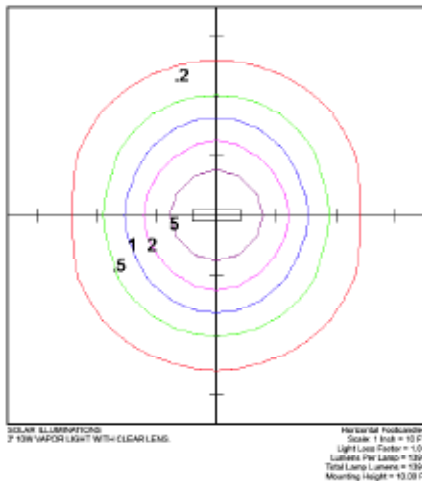
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Light Fixture

- Configured with one or multiple Samsung® LED strips.
- Light output is from 690 to 2640 lumens per fixture.
- Offered with a power consumption of 5, 10, 15, or 20 Watts.
- LEDs are powered with a Mean Well® driver and include optional PWM dimming control.
- All LEDs are white at approx. 5500 to 6000k color temperature. Warm white, cool white and amber (Sea Turtle Lighting) color temperatures are available by special order only and at extra cost.
- LED life is typically up to 100,000 hours or equal to about 22 years.
- These enclosures meet IEC Standards, and are IP66 rated.
- All enclosures are UL Listed US & CA.
- Offered as a 2' long or 4' long vaporproof enclosure.
- 2' light fixture dimensions are approx. 26" x 4" x 3.5" (66cm x 10cm x 9cm) LxWxD.
- 4' light fixture dimensions are approx. 52" x 4" x 3.5" (120cm x 10cm x 9cm) LxWxD.
- Each light fixture has approx. 13' (4m) of pre-wired cable.
- The light fixtures may be directly screwed onto a solid surface or mounted using the supplied mounting clips.



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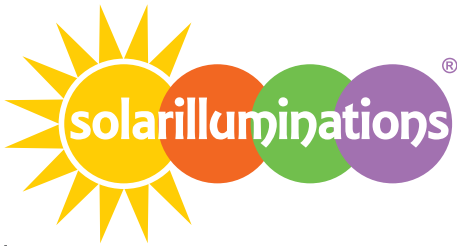
Lifetime Tech Support ✓

20 Year Panel Warranty ✓

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Solar Panel

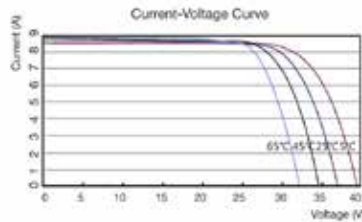
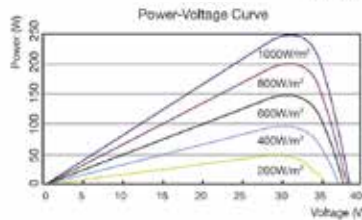
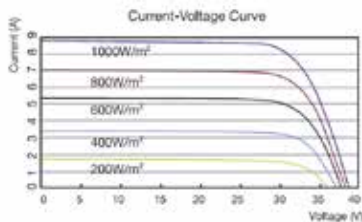
Systems are supplied with high quality monocrystalline or polycrystalline solar panels with the highest performance and efficiency. They are designed to endure the harshest environments, and are guaranteed to provide power for well over 20 years. Typically manufactured in the USA, Canada, or Germany. 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 45W 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.



Worldwide Shipping ✓

Lowest Price Guarantee ✓

5 Year Product Warranty ✓

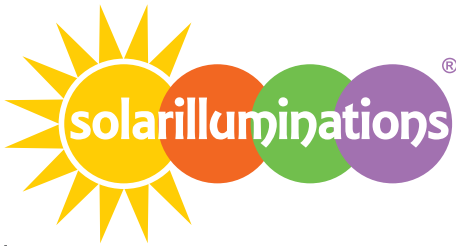
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“EastPenn batteries are engineered and tested to provide reliable, long-lasting power for Photovoltaic (PV) and renewable energy applications where frequent deep cycles are required and minimum maintenance is desirable.”



Made in the USA

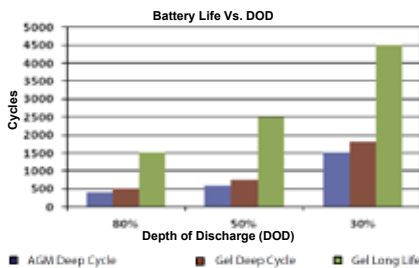
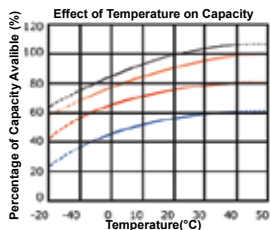


QUALITY SYSTEM CERTIFIED
ISO 9001
ISO/TS 16949
ENVIRONMENTAL SYSTEM CERTIFIED
ISO 14001



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 32Ah 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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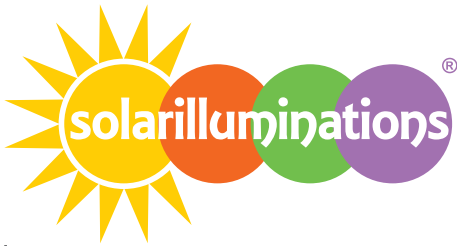
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Maximum Power Point Tracking

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.



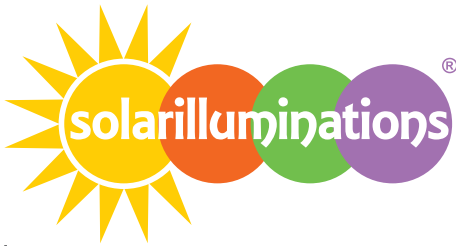
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Performance

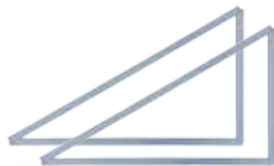
Operating voltage is 24 Volts. DC.
Power consumption is 10, 15, or 20 Watts (subject to selection).
Operating temperature -40 deg. C ~ +80 deg. C (-40 deg. F ~ 175 deg. F).
Intelligent battery management software to prevent over-charging and over-discharging.
Includes a minimum of three to five days of autonomy (battery back-up).
Several successive cloudy or alternating 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

- 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 on to the structure or to a pole with optional pole mount hardware, depending installation preference and battery capacity.
- The battery box has pre-drilled holes to enable secure installation to a horizontal or vertical surface.
- Battery Enclosures: galvanized/painted steel (Standard); aluminum (Special Order), or stainless steel (Special Order).



Hardware

- Standard triangular solar panel mounting hardware (surface mount) is supplied, typically one pair per panel.
- Optional pole top mount solar panel hardware, limited to certain PV configurations.
- Optional pole side mount solar panel hardware, limited to certain PV configurations.
- Optional roof top mount or rail mount solar panel hardware available by special order.
- Power cables, solar panel cables, and battery connections are included.
- This system 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.

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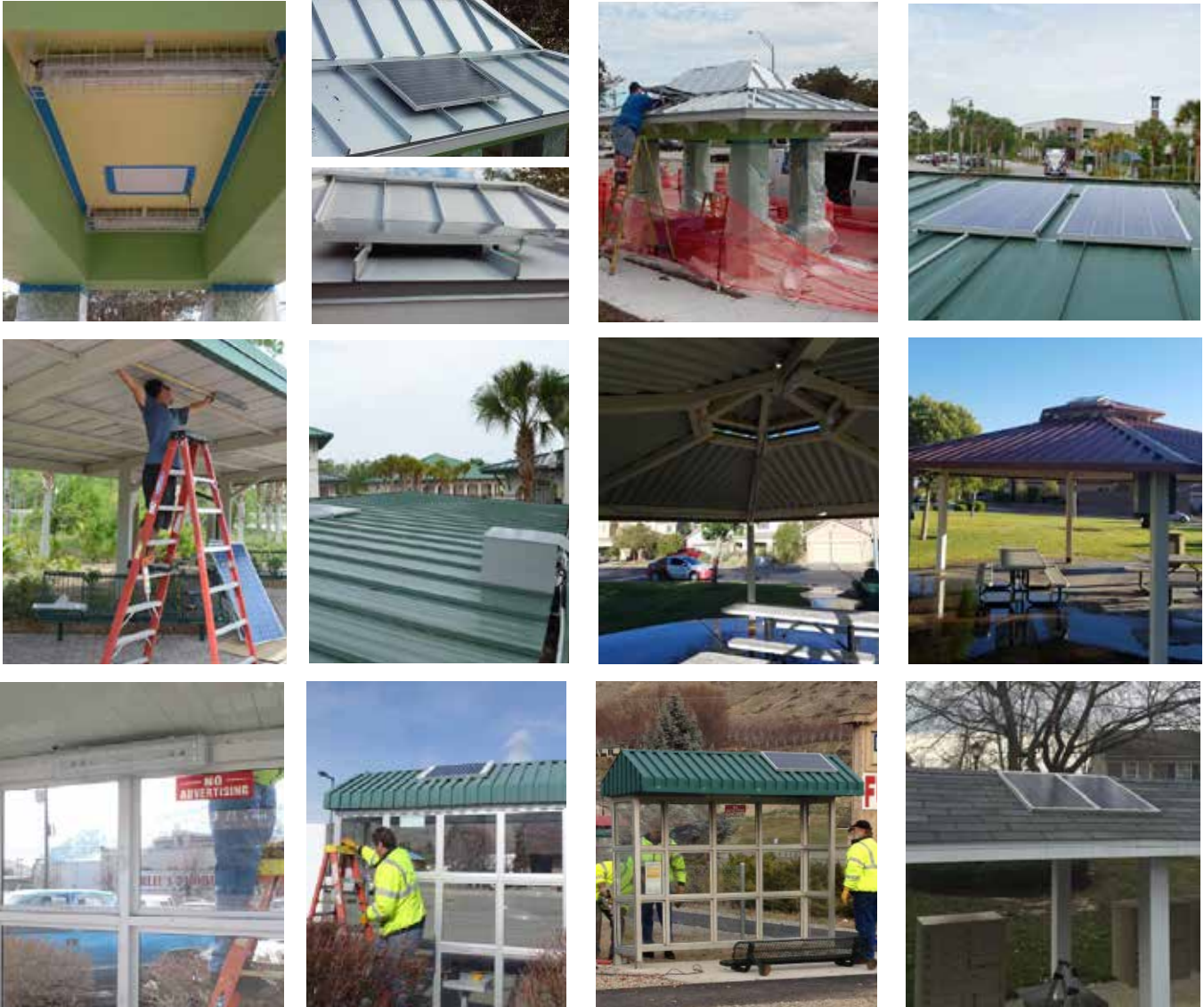


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Installation

You do not necessarily need to be an expert in solar or electricity to successfully install one of our systems. Our products are designed to be simple and easy to install, supplied with quick connections and common mounting hardware.



The solar panel can mount directly to the roof or to a separate pole using our supplied triangular hardware or other available hardware. The light fixtures can directly screw or bolt onto a solid surface, secured using the supplied mounting clips for a quick snap fit connection, or they hang from the ceiling. The battery enclosure is designed to mount to a horizontal/vertical surface using bolts or can strap to a pole using heavy duty stainless steel banding. The MPPT charge controller will be pre-configured and programmed to meet your requirements.

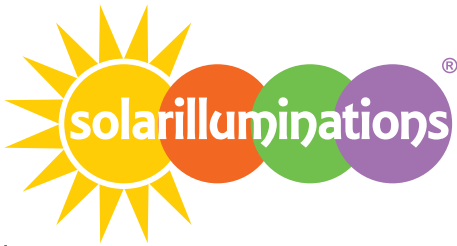
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