500 Philadelphia Pike
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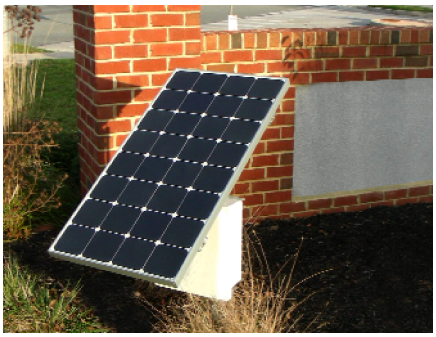
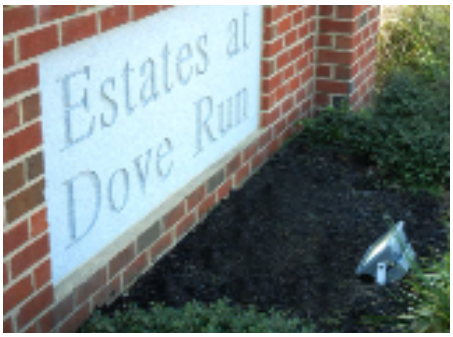
# Sun-In-One™

## New Electrical Solar Light and Power Products

# Solar Power Sign Lighting Solutions

Lighting for signs, people and assets, while protecting facilities, is increasingly important. Signage, walls, and borders are often a long distance from established electrical lines, and solar lighting is often the most cost-effective way to illuminate perimeters and signs. Cost-prohibitive electrical trenching and complicated logistics make solar-powered LED lighting the intelligent first choice.






## LED SIGNAGE LIGHTING

Solar-powered LED lighting and solar-powered systems are ideal for many industries, including signage, transportation, advertising, and farming, as well as other off-grid applications and lighting challenges.

### ENHANCES SIGNAGE AND SECURITY

- Bright white lights make it easier for people to see advertising, signage and buildings
- Lighting increases business and discourages crime around and along outbuildings and property lines
- Coupled with motion detection technology, solar-powered lighting is a powerful first-level deterrent for vandalism, theft, and mischief

### PEACE OF MIND

- LED signage lighting includes weather resistant hardware
- LED lighting is vibration and shock resistant It turns on without warm-up or flickering, even in extreme conditions (-40ºF to 140ºF)
- Solar-powered LED lighting works every night, including battery backup for cloudy days

## Sun-In-One™ Solar Lighting Solutions

Solar-powered lighting is an economic, reliable, and environmentally responsible way to provide lighting for visibility and security for signs, landscaping, buildings, outbuildings, or along highways.

### ECONOMIC

Compared to utility-connected lighting, solar lighting systems avoid costs associated with cabling, trenching, transformers, permits, utility bills. and service charges.

- Solar lighting installs in most locations without costly wiring and grid connections.
- Solar-powered lighting uses energy stored in batteries to provide bright white light – it is immune to power failures, brown-outs, or electrical switch gear break-down.

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### ECONOMIC – *Continued*

- Manpower costs are minimized in our unique pre-assembly methods.
- No monthly utility bills – the sun provides the energy.

### RELIABLE

Sun-In-One's solar LED lighting systems are built with sturdy, corrosive and vandal-resistant aluminum and stainless steel hardware. LED lights are protected with polycarbonate lenses. LEDs, AGM batteries, and associated hardware are protected via an industry-leading 5-year warranty that includes 25-year limited warranty on the solar panels.

Our systems are easy to install in most locations without grid connection, and are not susceptible to power outages. Our proprietary energy management technology provides minimum 4-night backup in case of inclement weather to ensure bright, reliable illumination.

- Since solar lighting is a distributed power source, it does not have a single point of failure.
- Our proprietary LED lighting technology lasts for a minimum of 65,000 hours (L70), with no light bulb replacements required.

### ENVIRONMENTALLY RESPONSIBLE

Sun-In-One's lighting systems are the sustainable choice to reduce your carbon footprint. Our LED lighting uses renewable energy from the sun to store electricity to power ultra-efficient LEDs. This approach requires no connection to the electrical grid and the emmsion of C02 to provide light. Our LED technology features cutting-edge optical designs with our bright light – and a long and reliable service life.

- Solar-powered lighting emits no CO2 or other hazardous gasses to provide efficient light.
- Solar LED lighting contains no mercury or other hazardous material.

## About Sun-In-One™

Sun-In-One™ is the leading manufacturer of commercial-grade solar powered off-grid and grid-tied lighting solutions for parking lots, pathways, streets and roadways, signs and billboards, shelters and landscapes, telecommunication systems, villages, microgrids, homes, and businesses.

Sun-In-One introduced innovative, reliable and cost-effective solar lighting systems that provide unsurpassed levels of illumination and reliability. Sun-In-One™ has a distributor network in 6 countries on 3 continents.

Sun-In-One™ is committed to superior design, manufacturing, and customer satisfaction.

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## CONFIGURATIONS AVAILABLE

| LED Luminaire | Battery Box | Driver Load | Battery/Amps | Mount | Panel/Power | Arm |
|---|---|---|---|---|---|---|
| NUMBER OF LUMINAIRES<br>1 Single Panel or Unit<br>2 Dual Panels or Units<br><br>LUMINAIRE TYPE<br>LL SS Head 10W<br>LL SS Head 20W<br>LL SS Head 30W<br>LL SS Head 50W | Fiber Glass<br>Steel<br>Stainless Steel | Morningstar<br>Wise Controller MPPT<br>LED Driver | Battery Box<br>Double-Locking<br>Non-Locking<br><br>TOTAL AMPS<br>55 Ah<br>70 Ah<br>85 Ah<br>100 Ah<br>140 Ah | Locking Low<br>Panel-Locking<br>Non-Locking<br>Below Grade<br><br>Top of Pole Mount<br>Side of Pole Mount | No. of Panels<br>1<br>2<br>3<br><br>85W<br>100W<br>135W<br>200W<br>250W<br>300W | 00 None<br>04 4″ UA<br>06 6″ UA<br>08 8″ UA<br>10 10″ UA<br>15 15″ UA |

IMPORTANT: Driver, Load, Batteries, Panel Power & Hours of Operation requirements to be determined by Sun-In-One™. Based on your project requirement, please consult Sun-In-One™.



**Optics** – High lumen LEDs rated at 50,000 hours. IES Type II available in Quad configuration. Shoebox also available in discrete LED configurations. Various models qualify as IES full cutoff and IDA Dark Sky certified. Efficient, bright, white light source of 6,500K provides uniform light distribution, but available from 3,200 to 6,500K. LEDs are mercury-free.

**Panel Mount** – Grade “A” corrosion resistant aluminum or stainless steel frame supports solar panel and battery enclosure. Allows for proper orientation of solar array.

**Solar Panels** – Poly-crystalline or mono-crystalline photovoltaic module in single, dual, or quad configuration. PV limited warranty by solar panel manufacturer for 25 years.

**Battery Enclosure** – Vented Grade “A” corrosion-resistant aluminum, fiberglass or stainless steel unit holds battery and smart controller. Hinged cover features optional locking device for additional security.

**Battery** – Maintenance-free 100% recyclable rated sealed cell battery provides a minimum of 4 nights of battery back-up. Battery is mounted inside a hinged battery enclosure for ease of maintenance.

**Controller** – A driver with an integrated solar charge controller that monitors and regulates charging and discharging of batteries as well as controlling and dimming of LED luminaire. Programmable to control hours of operation and light level requirements. Accessible through a hinged battery enclosure cover.

**Arm** – Universal arm available. Made of Grade “A” corrosion resistant aluminum. Holds luminaire for proper positioning of light. Secured to pole through two thru bolts or in a block on the ground.

**Pole** – System mounts on standard pole with tenon – square or round; steel or aluminum available.

**Warranty** – Five-year warranty on electronics, wiring, fixture. Twenty-year warranty on mounting hardware and solar panel.

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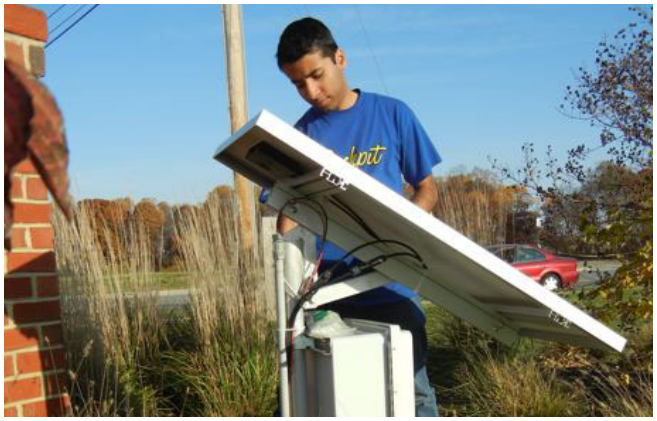
## SOLAR PANEL SPECIFICATIONS

| Solar Panel | | Dimensions – Length x Width x Height in. | Dimensions – Length x Width x Height mm. | Pole Tenon Size |
|---|---|---|---|---|
| 1 x 85 Watts | 85 Watts | 34.6″ x 27.5″ x 1.4″ | 1205 mm x 545 mm x 35 mm | 1.5″ / 1.75 O.D. |
| 1 x 100 Watts | 100 Watts | 40.8″ x 20.7″ x 1.38″ | 1037 mm x 527 mm x 35 mm | 1.5″ / 1.75 O.D. |
| 1 x 130 Watts | 135 Watts | 58″ x 31.1″ x 1.38″ | 1205 mm x 720 mm x 35 mm | 2.5″ / 1.75 O.D. |
| 2 x 100 Watts | 200 Watts | 40.8″ x 41.4″ x 1.38″ | 1037 mm x 1054 mm x 35 mm | 2″ / 3.5 O.D. |
| 1 x 250 Watts | 250 Watts | 39″ x 64″ x 1.6″ | 1640 mm x 990 mm x 40 mm | 2″ / 3.5 O.D. |
| 3 x 100 Watts | 300 Watts | 40.8″ x 62.1″ x 1.38″ | 1037 mm x 1581 mm x 35 mm | 2″ / 3.5 O.D. |

System weight and EPA may vary with number of fixtures and batteries. The chart above is for reference only. Wise Power Systems, Inc. provides calculated EPA and weight when a system is quoted and submitted. Solar panel configurations may vary slightly by manufacturer.

## REPLACEMENT LIGHTS (LIGHT EQUIVALENT)

| | | | |
|---|---|---|---|
| 10 Watt | 100 Watt — Metal Halide | 30 Watt | 200 Watt — Metal Halide |
| 20 Watt | 150 Watt — Metal Halide | 50 Watt | 250 Watt — Metal Halide |



BBB

American Solar Energy Society
WORKING TOWARD A SUSTAINABLE ENERGY FUTURE

SOLAR ENERGY INTERNATIONAL

MANUFACTURED IN AMERICA

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