



DETAILED SOLAR LIGHTING SPECIFICATIONS

PROJECT :

Location	Application	Estimate ID#
	Dimensions	Date

Solution Overview

System configuration

Model	EverGen™ M Series
System Color	
Tilt Angle	
Solar Panel Wattage	
Remote monitoring	Cloud-based dashboard and automatic notifications

Battery Details

Battery Type	
Battery Quantity	
Battery Capacity	Ah
Battery Location	

Fixture Details

LED Fixture	
Lumens per Fixture (approx.)	
Individual Fixture Wattage	
Light Color Temperature	
Optical Distribution Type	
Fixtures per System	

Warranty Details

Battery	
Solar PV Panel Output Power	Manufacturer's Warranty
Mounting Hardware and Electronics	10 Years
Pole (if provided)	Manufacturer's Warranty
LED Fixture	Manufacturer's Warranty

Additional Details

Weight (with batteries)	
EPA	
Tenon Requirement	3.5" OD x 6" long

System Order Key:

Certifications



Custom-sized for your project

Location

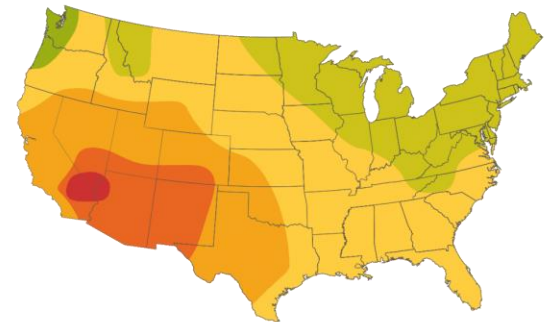
Location

Latitude

Longitude

Wind Zone (per ASCE-7-05)

- ▶ Each Sol lighting system is tailored to its specific location and operating needs, ensuring reliable performance for 365 days/year. **Calculations are based on 20 years of NASA data and the location's shortest day.**



PEAK SUN HOURS



Sizing Parameters



We use **December 21st** as the longest night length of the year for this location.



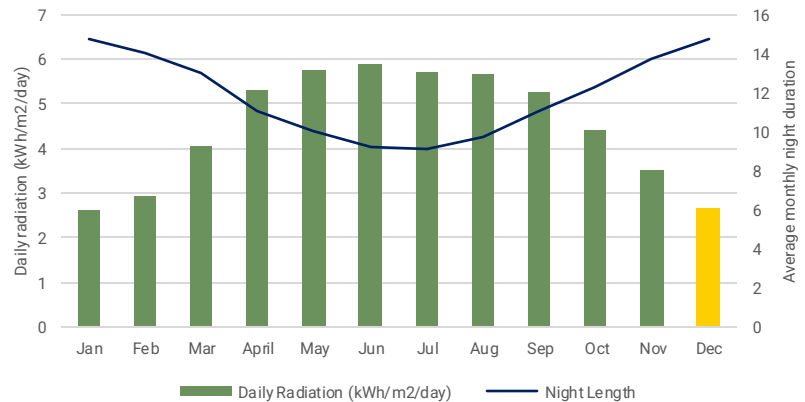
Dusk



Dawn



We use **December** in our sizing calculation. It has the worst average solar irradiation for this location.



Nominal load

Solar Panel size

Battery quantity

Battery capacity

Ah

Backup power* **days**

* Backup power is based on worst-case winter conditions.

Array-to-load ratio

- ▶ We size our solar panels to ensure we collect enough energy during the day to last through the night, maintaining an **Array-to-Load ratio of 1.2** or more. This ensures the solar array generates at least 20% more power than needed to fully recharge the battery.
- ▶ Without external power sources, solar lights need enough battery storage to last through low or no sunlight for multiple days. We collaborate with clients to determine the appropriate backup power based on their location and comfort level.

Benefits of the EverGen M



TOP-TIER LED FIXTURES

Compatible with a variety of cobra head and decorative fixtures from Acuity Brands, top-quality optics provide directional, uniform light without glare.



REMOTE MONITORING & ASSET MANAGEMENT

Access your systems remotely from any connected device. Locate systems on a map, view product types and warranties, download data, and receive alerts of system issues.



SIZED FOR YEAR- ROUND PERFORMANCE

Customizing the solar panel(s) and batteries to the project location and operational requirements ensures reliable, uninterrupted light 365 days a year.

MEETS IES ROADWAY LIGHTING STANDARDS



Achieve and maintain IES-recommended light levels for a variety of applications, including roadways, while avoiding negative health and gaining environmental benefits.



COMPLIANT WITH BUILD AMERICA, BUY AMERICA ACT

Up to 100% of the components used in our lights can be manufactured in America to comply with BABA requirements.



RoHS

EN 61547
Emissions



Component Specifications

Solar Panel

Technology	Photovoltaic module (Polycrystalline Silicon)
Power	
Electrical specifications per panel	Voc = 23.20 V / Vmp = 19.60 V / Isc = 9.35 A / Imp = 8.77 A / Number of cells = 36
Panel dimensions	59.06 x 26.30 x 1.57 in (1500 x 668 x 40 mm)
Lifespan	> 20 years at 80% of initial power
Tilt	30 Degrees
Structure	Clear anodized aluminum frame
Certificates	UL 1703

Battery

Technology	
Voltage	12V
Capacity	Ah
Battery quantity	
Operating temperature	Discharge: -4~140°F (-20~60°C) / Charge: 32~122°F (0~50°C)
Lifespan	> 10 years

Fixture

LED fixture type	
Luminous flux	
Nominal wattage	
Color temperature	
Lifespan	100 000 hours certified by IESNA LM-90 B-50

General

Material	Aluminum frame and stainless steel fasteners
EPA (excluding pole and arm)	
Pole tenon requirement	3.5 in. OD x 6 in. long
Weight (excluding pole and arm)	
Warranty	System: 10 Years Battery:
Monitoring	Sol Insight™ Cloud-based dashboard and automatic notifications
Communication technology	Bluetooth® app for commissioning and satellite modem for monitoring

Sol Insight™

**Helpful data when you want it,
automatic alerts when you need it.™**

- ▶ Insight remote monitoring allows you to view how your entire network of solar lights are performing on the ground – from the comfort of your desk.
- ▶ At any time, simply log in to the Insight platform to see the status and geolocation of each light. If further diagnostics are desired, you can drill down into recent data to determine if a system was commissioned properly and if it is working as expected. And if regularly reviewing your dashboard doesn't fit into your schedule, Insight will send automatic notifications if any system is compromised or not working the way it's supposed to.

Sol's Insight platform is a tool that can save your department time by removing the guesswork and by protecting your investment.

Sol Insight™: Monitor your lights remotely

Monitor your lights in real-time and be notified when maintenance is needed.

Sol Insight™ is included with your purchase for one year, after which you can continue to enjoy this service with a subscription.



API integration available



Check light status anytime



Receive automated notifications



Receive commissioning confirmation



Get help from expert product technologists



Sol Insight™, our cloud-based remote monitoring system, is the ideal solution for modern, efficient management of your solar street lighting. It utilizes one of the most reliable and affordable communication technology available today: **satellite**.



Learn more about our monitoring capabilities at www.solarlighting.com/monitoring/

To receive Insight remote monitoring, customers must sign off on terms and conditions.
An email address is also required to receive Insight services. Contact a Sol sales representative for details.

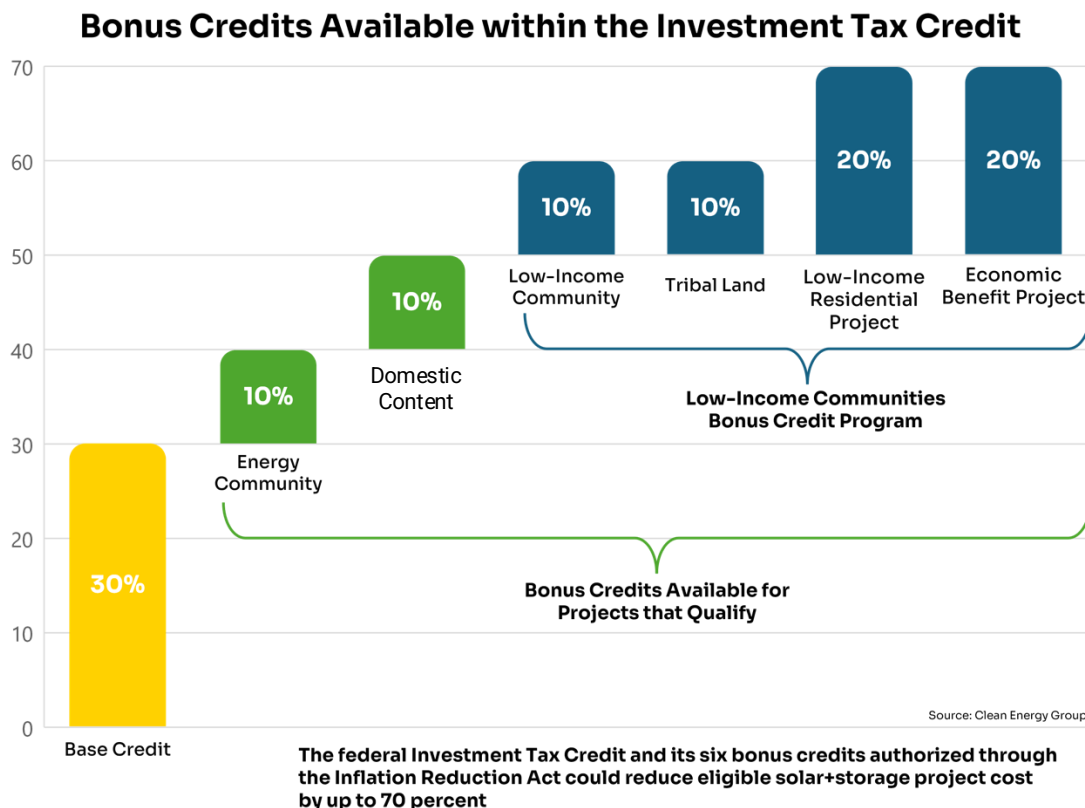
Available tax credits, grants, and leasing options



Did you know that if you **purchase and install a solar lighting system** in the **U.S. before 2033**, the federal government will **reimburse you 30% (or more) of the cost**?

It's true. The Investment Tax Credit was recently expanded and adapted under the Inflation Reduction Act (IRA), allowing businesses, state and local governments, tribal councils, and more to **significantly reduce the cost of their renewable infrastructure investments**.

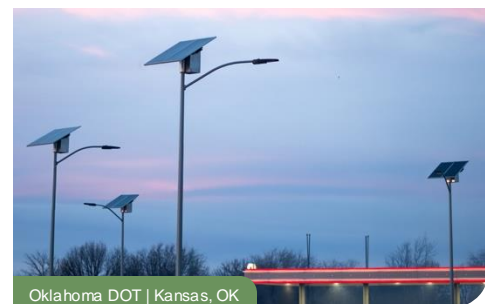
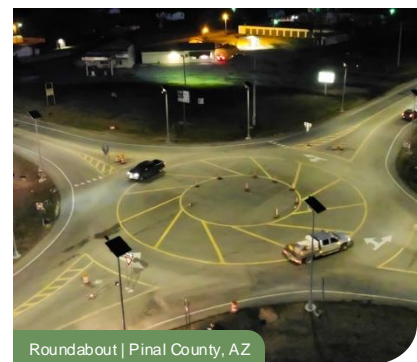
- Tax-exempt organizations like cities and counties can now receive cash payments instead of tax credits using a provision called “direct pay,” while for-profit companies can sell their credits to an unrelated party without having to partner with a bank. Plus, **the ITC can be combined** with other government incentives like **the Energy Efficiency and Conservation Block Grant Program** to make solar lighting even more affordable.



Learn about the ITC, available grants and our Solar Lighting as a Service program at www.solarlighting.com/financing/

Success stories

50,000+ systems installed in the U.S.



They also trust Sol.

D-R-HORTON
America's Builder

TECO
AN EMERA COMPANY

ENGIE

AMERESCO
Green • Clean • Sustainable

CITY OF ORLANDO

NYC

LOCKHEED MARTIN

New Mexico DEPARTMENT OF
TRANSPORTATION
MOBILITY FOR EVERYONE

