



HIGH-POWER SOLAR LIGHTING SYSTEM

# EverGen



10 YEAR  
WARRANTY

**Sol**<sup>®</sup>  
by Sunna Design<sup>®</sup>

# EverGen



CUSTOM-SIZED FOR YEAR-ROUND PERFORMANCE



TOP-QUALITY, NAME-BRAND FEATURES



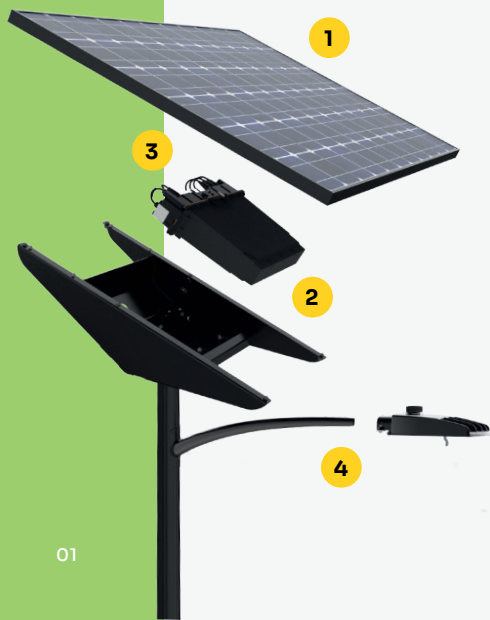
LIGHTWEIGHT, STREAMLINED DESIGN

**10**  
years  
warranty

INDUSTRY-LEADING  
10-YEAR WARRANTY

The EverGen Series is a range of high-powered, modular solar lighting solutions designed to illuminate projects across a wide variety of applications, including streets and roadways, parks, trails, parking lots, commercial and military facilities.

Designed with 35 years of solar lighting experience and custom-sized to project location and requirements, EverGen systems are field-proven to provide reliable, quality light wherever and whenever it's needed. The system's modular design and companion app make it easy to install and commission on-site, while cloudbased software provides convenient remote access to asset locations, statuses, settings, and data.



1

## TILTED SOLAR PANEL

Three tilt options available (10° / 25° / 45°)  
Optimize solar collection at project location  
Self-cleaning coating prevents dust and snow accumulation

2

## HIGH DENSITY LIFEPO4 BATTERY

Multiple battery sizes to meet your project location and requirements

3

## SUNNACORE EMS

Electronic board with integrated LED driver  
Patented blackout prevention algorithm

4

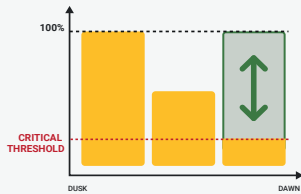
## VARIETY OF TIER 1 US FIXTURES

Pairs with a variety of high-performance roadway and decorative fixtures from Acuity

■ **SIZED FOR YEAR-ROUND PERFORMANCE**

Every EverGen system is sized to its exact location and operating requirements to ensure reliable, uninterrupted performance 365 days/year. We base our calculations on 20 years of NASA data and the location's shortest day of the year.

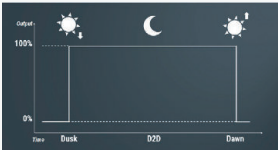
■ **PATENTED BLACKOUT PREVENTION ALGORITHM**



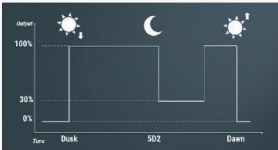
In addition to the solar sizing calculations described above, EverGen systems feature an embedded SunnaCore Energy Management System (EMS) that uses patented, AI-based algorithms to prolong lighting performance.

Using data insights gleaned in the field, the system automatically evolves its output based on the amount of energy available.

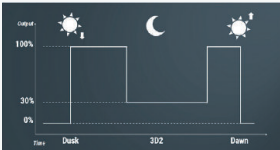
■ **SUGGESTED OPERATING PROFILES**



**Dusk to Dawn (D2D)**  
On at dusk at 100% lumen output - then off at dawn.



**Five Dim Two (5D2)**  
100% at dusk for 5 hours -then dim to 30% - then 100% for 2 hours before dawn.



**Three Dim Two (3D2)**  
100% at dusk for 3 hours -then dim to 30% - then 100% for 2 hours before dawn.

● **ACUITY BRANDS' ATB MICRO FIXTURE PROFILES**

Package	Lumen	Seattle	San Francisco	Los Angeles	Phoenix	Albuquerque	Dallas	Denver	Kansas City	Minneapolis	Indianapolis	New York	Atlanta	Miami
P101	2899 lm	D2D	D2D	D2D	D2D	D2D	D2D	D2D	D2D	D2D	D2D	D2D	D2D	D2D
P102	3400 lm	D2D	D2D	D2D	D2D	D2D	D2D	D2D	D2D	D2D	D2D	D2D	D2D	D2D
P103	4016 lm	SD2	D2D	D2D	D2D	D2D	D2D	D2D	D2D	D2D	D2D	D2D	D2D	D2D
P104	4989 lm	SD2	D2D	D2D	D2D	D2D	D2D	D2D	D2D	SD2	SD2	D2D	D2D	D2D
P105	5897 lm	SD2	D2D	D2D	D2D	D2D	D2D	D2D	SD2	SD2	SD2	SD2	D2D	D2D
P106	6765 lm	SD2	SD2	D2D	D2D	D2D	D2D	SD2	SD2	SD2	SD2	SD2	SD2	D2D
P151	4320 lm	SD2	D2D	D2D	D2D	D2D	D2D	D2D	D2D	D2D	D2D	D2D	D2D	D2D
P152	5077 lm	SD2	D2D	D2D	D2D	D2D	D2D	D2D	D2D	SD2	SD2	D2D	D2D	D2D
P153	6041 lm	SD2	D2D	D2D	D2D	D2D	D2D	D2D	D2D	SD2	SD2	SD2	D2D	D2D
P154	7399 lm		SD2	D2D	D2D	D2D	SD2	SD2	SD2	SD2	SD2	SD2	SD2	D2D
P155	8158 lm		SD2	D2D	D2D	D2D	SD2	SD2	SD2	SD2		SD2	SD2	D2D
P156	8706 lm		SD2	SD2	SD2	SD2	SD2	SD2	SD2			SD2	SD2	SD2

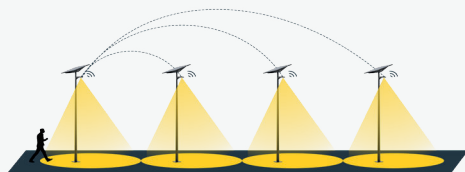
## ■ PRODUCT OPTIONS

### • MOTION DETECTION

EverGen systems can be equipped with motion sensors that switch the lights on (or increase their intensity) when activity is detected. Providing light only when it's needed means energy can be saved without affecting safety.



### • GROUPED DETECTION

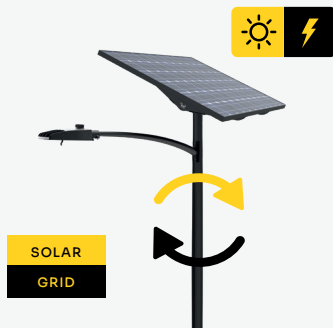


► When one street light detects movement, it informs others nearby, allowing a group of street lights to illuminate simultaneously.

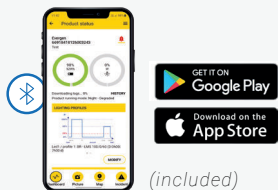
### • HYBRID POWER

Switch seamlessly between solar power and grid as needed.

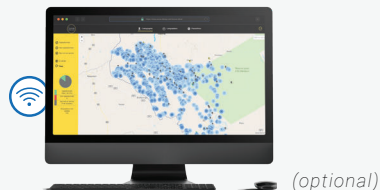
- Ensure resiliency of lighting infrastructure
- Minimize system cost (no need to size solar for worst conditions)
- Qualify for tax incentives, grants, and rebates
- Meet sustainability goals
- Reduce peak loads and blackouts



### • ASSET MANAGEMENT & REMOTE MONITORING



(included)



(optional)

#### ☒ **SUNNAPP** (local controls)

Commission and check your systems' performance via long-range Bluetooth.

- Performance tracking
- Diagnostics & troubleshooting
- Geolocation & asset management

#### ☒ **SUNNA CLOUD** (remote monitoring)

Monitor your lights and be notified when maintenance is needed.

- Comprehensive & detailed asset view
- Notification alerts of system failure
- Centralized data logs

# EverGen



**10 YEAR  
WARRANTY**



**SOLAR PANELS**

Technology	Photovoltaic module (Monocrystalline N-Type TOPCon cells)
Power	200, 300 or 400 Wp
Electrical specifications per panel	200Wp: VOC = 47.26 V / VMP = 41.65 V / ISC = 5.17 A / IMP = 4.95 A / Number of cells = 66 300Wp: VOC = 47.26 V / VMP = 41.65 V / ISC = 7.76 A / IMP = 7.42 A / Number of cells = 66 400Wp: VOC = 47.26 V / VMP = 41.65 V / ISC = 10.34 A / IMP = 9.89 A / Number of cells = 66
Panel dimensions	200 Wp: 34.45 x 44.65 x 1.38 in (840x1134x35 mm) 300 Wp: 48.03 x 44.65 x 1.38 in (1220x1134x35 mm) 400 Wp: 63.39 x 44.65 x 1.38 in (1610x1134x35 mm)
Lifetime	> 25 years at 80% of initial power
Tilt	10° / 25° / 45°
Structure	Anodized aluminum alloy
Certificates	IEC 61215; IEC 61730; IEC 61701; IEC 62716

**BATTERY**

Battery technology	Lithium Iron Phosphate - LiFePO4
Voltage	25.6V
Capacity	512Wh, 1024Wh, 1536Wh, 2048Wh
Operating temperature	-4°F to +140°F (-20°C to +60°C)
Lifetime	> 10 years
Water resistance	IP65

**ELECTRONICS**

Total output power LED 1 + LED 2 (W)	20 to 150 W
Power consumption	20 to 150 W max (or 2 x 80W max)
Operating temperature	-40°F to +158°F (-40°C to +70°C)

**GENERAL**

Materials	High-strength structural steel, zinc-plated and powder-coated
EPA <i>(engine only)</i>	200Wp: 2.78 sq ft (10°) / 6.77 sq ft (0.63 m2) (25°) / 11.33 sq ft (1.16 m2) (45°) 300Wp: 3.88 sq ft (10°) / 9.44 sq ft (0.88 m2) (25°) / 15.79 sq ft (1.47 m2) (45°) 400Wp: 5.12 sq ft (10°) / 12.46 sq ft (1.16 m2) (25°) / 20.84 sq ft (1.94 m2) (45°)
Pole Tenon Requirements	3.5"OD x 6' Long (89mm OD x 152.5mm)
Weight <i>(excluding pole)</i>	Starting from 105 lbs
Warranty	10 years
Smart Lighting Options	Remote monitoring / Group communication / Motion detection / Hybrid Power*

\*Hybrid mode ensures no blackouts all year round. Solar-powered streetlights mainly use the energy captured by the sun to provide light. If the battery is discharged, the electrical grid takes over, ensuring continuous lighting.

# Autobahn Series ATBMicro – Solar

Applications : Roadways, Off ramps, Residential streets, Parking lots

## FEATURES

### Optical

The Autobahn's new molded silicone optics provide exceptional performance. Silicone optics are superior to other polymeric materials in the areas of; optical efficiency, thermal performance, and reduction in dirt accumulation, all of which can lead to long term lumen degradation and a shift in optical distribution. Also, because silicone allows for the molding of fine details as well as thick sections, it produces the most crisp, clean and well-defined lighting distributions available. Silicone optics paired with modern LED's allow the Autobahn to take full advantage of both technologies.



Same Light: Performance is comparable to 70-150W HPS roadway luminaires.

White Light: Correlated color temperature - 4000K, or optional 2700K, 3000K or 5000K, all 70 CRI minimum.

Unique IP66 rated LED light engines provide 0% uplight and restrict backlight to within sidewalk depth, providing optimal application coverage and optimal pole spacing. Available in Type II, III, IV, & V roadway distributions.

### Electrical

Expected Life:  
LED light engines are rated >100,000 hours at 25°C, L70.  
Lower Energy:  
Saves an expected of 40-60% over comparable HID luminaires.

### Mechanical

Includes standard AEL lineman-friendly features such as tool-less entry, 3 station terminal block and quick disconnects. Bubble level located inside the electrical compartment for easily leveling at installation.

Rugged die-cast aluminum housing and door are polyester powder-coated for durability and corrosion resistance. Rigorous five-stage pre-treating and painting process yields a finish that achieves a scribe creepage rating of 7 (per ASTM D1654) after over 5000 hours exposure to salt fog chamber (operated per ASTM B117).

Mast arm mount is adjustable for arms from 1-1/4" to 2" (1-5/8" to 2-3/8" O.D.) diameter. Provides a 3G vibration rating per ANSI C136.31

### Standards

Color temperatures of ≤ 3000K must be specified for International Dark-Sky Association certification.

Rated for -40°C to 40°C ambient  
Complies with ANSI: C136.2, C136.10, C136.14, C136.31, C136.15, C136.37

**GOVERNMENT PROCUREMENT** — BAA – Buy America(n) Act: Product with the BAA option qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product with the BAA option also qualifies as manufactured in the United States under DOT Buy America regulations.

BABA – Build America Buy America: Product with the BAA option also qualifies as produced in the United States under the definitions of the Build America, Buy America Act.

Please refer to [www.acuitybrands.com/buy-american](http://www.acuitybrands.com/buy-american) for additional information.

Note: Specifications subject to change without notice. Actual performance may differ as a result of end-user environment and application.

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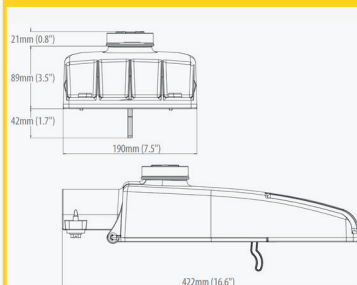


Consistent with LEED® goals &  
Green Globes® criteria  
for light pollution reduction



BABA & BAA  
compliant

## DIMENSIONS



Effective Projected Area (EPA):  
The EPA for the ATBMicro is 0.36 sq. ft.  
Approx. Wt. = 8 lbs.

# Autobahn Series ATBMicro - Solar

Series	Performance Packages

ATBMic Autobahn LED Roadway

P101	2,889 lumens nominal
P102	3,400 lumens nominal
P103	4,016 lumens nominal
P104	4,959 lumens nominal
P105	5,897 lumens nominal
P106	6,755 lumens nominal
P151	4,320 lumens nominal
P152	5,077 lumens nominal
P153	6,041 lumens nominal
P154	7,399 lumens nominal
P155	8,158 lumens nominal
P156	8,706 lumens nominal

Options

Color Temperature (CCT)

(Blank)	4000K CCT, 70 CRI Min.
27K	2700K CCT, 70 CRI Min.
3K	3000K CCT, 70 CRI Min.
5K	5000K CCT, 70 CRI Min.

Paint

(Blank)	Gray (Standard)
BK	Black
BZ	Bronze
DDB	Dark Bronze
WH	White

Terminal Block

(Blank)	Terminal Block (Standard)
---------	---------------------------

Misc

BL	Black
HSS	Bronze
NL	Dark Bronze
XL	White

UMR-XX

8"Horizontal Arm for Round Pole,  
Painted to match Fixture

UMS-XX

8"Horizontal Arm for Square Pole,  
Painted to match Fixture

UMR-GALV

8"Horizontal Arm for Round Pole,  
Galvanized

UMS-GALV

8"Horizontal Arm for Square Pole,  
Galvanized

BAA

Buy America(n) Act and/or Build  
America Buy America Qualified

Accessories

House Side Shields for field installation

ATBMICP10XR2/R5HSS

for use with P101 - P106, R2 & R5  
distributions

ATBMICP10XR3/R4HSS

for use with P101 - P106, R3 & R4  
distributions

ATBMICP15XR2/R5HSS

for use with P151 - P156, R2 & R5  
distributions

ATBMICP15XR3HSS

for use with P151 - P156, R3  
distribution

Notes:

1. Not available with P151 - P156 performance packages.
2. No Driver included, input power managed via Sol By Sunna's Solar Engine. Wattage depends on project location and Solar Engine size.

**Warranty** Five-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: [www.acuitybrands.com/support/warranty/terms-and-conditions](http://www.acuitybrands.com/support/warranty/terms-and-conditions)

**Note:** Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

**Please contact your sales representative for the latest product information**



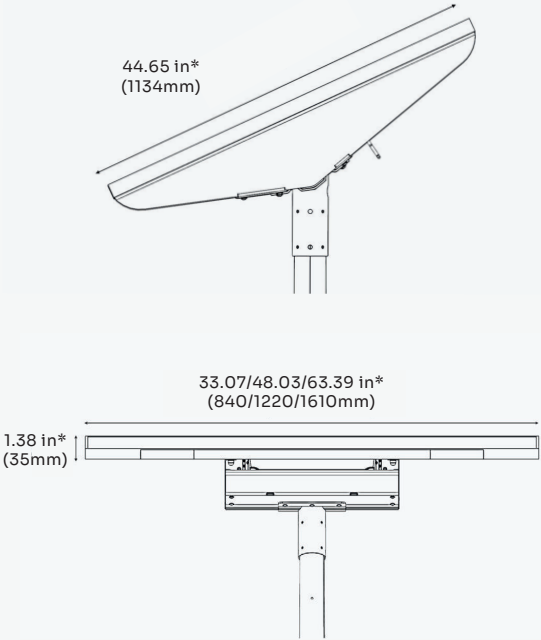
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Email: [TechSupport-Lighting@AcuityBrands.com](mailto:TechSupport-Lighting@AcuityBrands.com)  
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ATBMic\_SOLAR 04/16/24

■ SYSTEM ORDER KEY

MODEL	BATTERY TECH.		BATTERY CAPACITY		PV SIZE		PV PANEL TILT		COLOR (RAL)		TENON ADAPTER		
E3	EverGen	L	LiFePo4	512	512 Wh	200	200 Wp	10	10° tilt	9005	Black (standard)	US	US 3.5" OD
				1024	1024 Wh	300	300 Wp	25	25° tilt	8019	Bronze		
				1536	1536 Wh	400	400 Wp	45	45° tilt	9010	White		
				2048	2048 Wh								

FIXTURE PROVISION		MOTION SENSOR		REMOTE MONITORING		LED DRIVER		OPTION	
S	Single fixture provision	M	Motion sensor	C	Monitoring	LV	Driver 32-50 Vdc	HY	Hybrid
D	Dual fixtures provision	X	No motion	X	No monitoring	HV	Driver 50-120 Vdc	XX	Custom

■ DIMENSIONS



\* Dimensions vary depending on solar panel size.



## ■ WHY SOL?

Choosing Sol means investing in quality, reliability, and innovation in solar lighting.

With 35 years of experience, 160,000 installs, 23 patents, and a deep, ongoing commitment to research and development, we have an unmatched record of delivering durable, low-maintenance solutions that provide cost savings and environmental benefits.



### **Comprehensive product portfolio**

Sol is the only solar lighting manufacturer that offers both integrated, all-in-one products and modular systems.

**10**  
year  
warranty

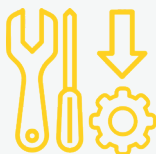
### **Industry-leading warranty**

We offer a 10-year warranty on the entire system, including the battery.



### **Meet and maintain IES targets**

Our systems are guaranteed to IES recommended light levels, without dimming or premature shut-off.



### **Engineered for low maintenance**

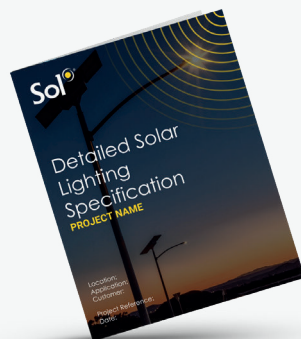
Thanks to careful solar sizing and local and remote monitoring options, maintenance is greatly reduced or eliminated.

## ■ OUR SERVICES

At Sol, we aim to be trusted solar advisors—not just a supplier. That means we're here to assist you through all stages of your solar street lighting project, from the initial site assessment to financing to installation and after-sales support.

### • DETAILED ASSESSMENT & PROPOSAL

We provide custom detailed specification packages for each project, including solar sizing, product features and options, and a photometric study (lighting layout) in AGi 32 or IES format.



► Typical turnaround time: 24 hours

### • AFTER-SALES SUPPORT

In addition to the 10-year warranty we offer on all products, Sol's technical specialists are committed to providing responsive, qualified service throughout the relationship.



Many of our customers have been with us for more than 20 years, using our retrofit program to upgrade their lights to the latest technology without investing in an entirely new system.

### • FINANCING OPTIONS

A growing variety of options are making it more financially viable for cities, businesses, utilities, and more to transition to solar lighting—and reap the benefits.

Whether you need a little or a lot to complete your solar lighting project, funding is available, and our team is ready to help you find it.



► Explore our financing resources

PARKING LOTS



APPLICATIONS

ROADS



TRAILS







2025-A



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**Sol**<sup>®</sup>  
by Sunna Design<sup>®</sup>

A DIFFERENT LIGHT