



ALL-IN-TWO SOLAR LIGHTING SYSTEM



# UP2



10 YEAR  
WARRANTY

| Sol<sup>®</sup>

# UP2

 10 YEAR WARRANTY



PATENTED BLACKOUT PREVENTION ALGORITHM



SYSTEM ALERTS & PERFORMANCE TRACKING



PLUG & PLAY DESIGN



BUILT TO RESIST SEVERE WEATHER

The UP2 is a unique all-in-two solar light that delivers unmatched performance in a diverse range of environments, thanks to its high-density NiMH battery and advanced Energy Management System (EMS), which uses patented, AI-based algorithms to regulate light output based on the amount of energy available.

An ideal solution for multi-use paths, parks, playgrounds, and recreational areas, UP2 systems feature a compact design and easy-to-use companion app, making installation quick and seamless. Users can use the app to set and adjust lighting profiles, retrieve data logs, and access support. Optional features like motion detection and remote monitoring are also available.



1

## TILTABLE SOLAR PANELS

*Multiple tilt options available  
Optimize solar collection at project location  
Self-cleaning coating prevents dust and snow accumulation*

2

## HIGH-DENSITY NiMH BATTERY

*Wide temperature range (-40°F to 158°F)  
Long lasting (12 years lifespan)  
Able to withstand extreme temperatures*

3

## SUNNACORE EMS

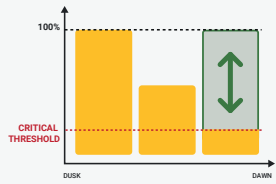
*Electronic board with integrated LED driver*

4

## VARIETY OF TIER 1 US FIXTURES

*Selection of high-performance options  
Partnered with Acuity Brands and Cyclone Lighting*

## ■ SIZED FOR YEAR-ROUND PERFORMANCE



Every UP2 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.

In addition they 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.

## ■ CUSTOMIZED LIGHTING PROFILES

Our lighting profiles are optimized based on daily sunlight exposure.

By analyzing weather data from previous days and the available battery capacity, our system automatically adjusts light intensity to prevent outages and maximize lighting availability.

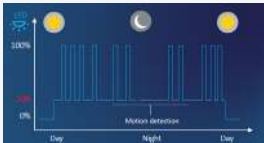
### SUGGESTED OPERATING PROFILES



**M**  
100% (5h) / 40% / 100% (1h)



**C**  
100% (3h) / motion / 100% (1h)



**L**  
20% default +100% (on motion)

Additional profiles are available on request. Profile availability depends on location.

## ■ ASSET MANAGEMENT & REMOTE MONITORING



### SUNNAPP LOCAL CONTROLS *(included)*

Configure and monitor your systems' performance with long-range Bluetooth.

Geolocation & asset management

Performance tracking

Diagnostics & troubleshooting



■ **PRODUCT DATASHEET**

# UP 2



**10 YEAR  
WARRANTY**



<b>SOLAR PANELS</b>	Technology	Photovoltaic module (Monocrystalline silicon)
	Power	80 Wc (2x40 Wc)
	Specifications electrical per panel	Isc = 2,19 A / Voc = 24,17 V / Imp = 2,01 A / Vmp = 19,9 V
	Panel dimensions	30.55 in. x 13.77 in. (776 x 350 mm) (x2 solar panels)
	Lifetime	> 20 years at 80% of initial power
	Tilt	10°, 25°, 40°, 50°
	Structure	Frameless
Certificates	IEC 61215; IEC 61730 I and II	
<b>BATTERY</b>	Battery technology	NiMH Battery (high resistance to extreme temperatures, maintenance-free)
	Voltage	24V
	Capacity	240 Wh
	Operating temperature	-40°F to 158°F (-40°C to +70°C)
	Lifetime	12 years
Certificates	EN 62133	
<b>ELECTRONICS</b>	Technology	SunnaCore®
	Communication	Bluetooth
	Input voltage	24V
	Open circuit voltage	45V
	Max charge and discharge current	4.2A
	Electrical protection	Electronic fuse
Water resistance	IP65 with waterproof connectors	
<b>GENERAL</b>	Materials	Body ABS PMMA (70% recycled) and aluminum
	EPA	6.35 ft² (at 50° tilt)
	Mounting	Solar generator: Top-mounted Ø2.38 in. OD; Luminaire: bracket** or horizontal bracket
	Weight (excluding pole)	Solar engine: 42 lbs / Lantern: 3.3 lbs
Options	Motion detector (detection range: 10 to 16 ft. depending on mounting height) / Anti-theft screws / Anti-bird picks Local supervision	

\* Available only with motion detection \*\* Mounting bracket not supplied

## POWERPACK ORDER KEY

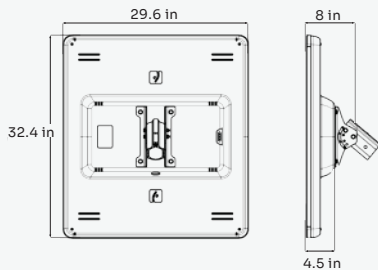
MODEL	MOTION SENSOR	OPERATING PROFILE*			PAINT	
<b>SL4249</b> UP 2	<b>0</b> No	<b>0A</b>	100% (3h) / 40% / 100% (1h)		<b>090</b>	White
		<b>0B</b>	60% from dusk to dawn		<b>190</b>	Dark Bronze
		<b>0M</b>	100% (5h) / 40% / 100% (1h)		<b>290</b>	Black
	<b>1</b> Yes	<b>0C</b>	100% (3h) / motion / 100% (1h)			
		<b>0L</b>	20% default +100% (on motion)			

\*The operating profile's availability depends on your location's solar insulation. An autonomy calculation may be needed to confirm that the profile is sustainable in your location.

## FIXTURE ORDER KEY

SERIES	PERFORMANCE PACKAGE	DRIVER VERSION	OPTICS	CCT	PAINT	MISC	
<b>ATBmic</b> Autobahn LED Roadway	<b>P101</b>	2,889 lumens nominal	<b>Solar</b> Solar-ready	<b>R2</b> Roadway Type II	<b>XX</b> 4000K CCT, 70 CRI Min.	<b>XX</b> Grey	<b>HSS</b> House-side shield
				<b>R3</b> Roadway Type III	<b>27K</b> 2700K CCT, 70 CRI Min.	<b>WH</b> White	<b>BAA</b> Buy America (r) Act and/or Buy America Qualified
	<b>P102</b>	3,400 lumens nominal		<b>R4</b> Roadway Type IV	<b>3K</b> 3000K CCT, 70 CRI Min.	<b>DDB</b> Dark Bronze	
				<b>R5</b> Roadway Type V	<b>5K</b> 5000K CCT, 70 CRI Min.	<b>BK</b> Black	

## DIMENSIONS



## COLORS



**RAL 9005**  
Black



**RAL 9010**  
White



**RAL 8019**  
Dark Bronze

# Autobahn Series ATBMicro – Solar

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



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



BABA & BAA compliant

## 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 provided 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).

Most 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  $\leq 3000\text{K}$  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

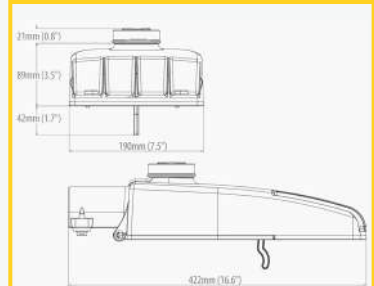
**GOVERNMENT PROCUREMENT** – BAA – Buy America(n) Act: Product with the BAA option qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product with the BAA option also qualifies as manufactured in the United States under DOT Buy America regulations.

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.

## DIMENSIONS



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

■ **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.



**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 AG132 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.



▶ **Scan to learn more about financing your lights.**



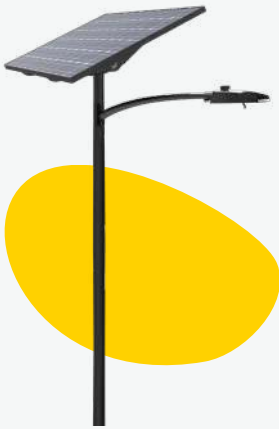
## ■ SOL'S SOLAR LIGHTING SOLUTIONS

### • iSSL SERIES

iSSL makes lighting easy with its fully integrated plug & play design that's up and running in less than 20 minutes. Matching the UP Series in technology and efficiency, its flat panel design makes it ideal for lighting up residential areas, trails, and parks in high-wind areas, particularly in the southern states.



### • EVERGEN SERIES



Designed with versatility in mind, the EverGen allows for complete customization to match any application or location, thanks to its innovative modular design and multiple battery options. Our flagship EverGen solution guarantees dusk-to-dawn lighting on all types of roads, with market leading autonomy and reliability.

### • UP SERIES

UP is a robust all-in-two solution designed for residential areas, parks, and trails. Featuring a tiltable solar panel, advanced motion sensing, and a battery designed to resist extreme temperatures, it is the perfect all-around solution for projects with tight budgets, without compromising on quality or functionality.





2023



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Sol<sup>®</sup>

A DIFFERENT LIGHT