



Solar Lighting™

A **DUVON** Company



**Smarter
Brighter
Stronger**

360solarlighting.com

Call: (224) 567-8312

710 Armstrong Dr.
Buffalo Grove, IL 60089



360 Solar Lighting designs and manufactures complete solar LED lighting systems engineered for performance, long-term reliability, and simplified service.



360SOLARLIGHTING.COM

710 ARMSTRONG DR, BUFFALO GROVE, IL 60089
(224) 567-8312 • SALES@360SOLARLIGHTING.COM • 360SOLARLIGHTING.COM



ABOUT US

**BUILT IN AMERICA. ENGINEERED ON OUR FLOOR.
SPECIFIED FROM COAST TO COAST.**

360 Solar Lighting is the off-grid division of Duvon Lighting. Over eighteen years in the lighting industry. Headquartered and manufacturing in Buffalo Grove, Illinois.

We build solar lighting systems end to end — street, area, park, sports, security, and bollard. Engineered in-house. Assembled on our floor. Shipped from the United States.

Not drop-shipped. Not rebadged. Not a logo on someone else's box.

Specified by municipalities, DOTs, school districts, parks departments, and developers from coast to coast. Woman- and minority-owned. Buy American Act compliant. Photometric layouts, IES files, and submittal packages on every project. Factory-direct support from spec through commissioning.

One manufacturer. One floor. One team accountable for every system that leaves the building.

Solar lighting is not a side line for us. It is the line.

LEARN MORE AT [360SOLARLIGHTING.COM](https://www.360solarlighting.com)

Off-Grid Park Trail and Roadway Lighting

Installed Solar Lighting System: Hera





Urban Pedestrian & Pathway Lighting
Installed Solar Lighting System: Mars



Parking Lot & Area Security Lighting
Installed Solar Lighting System: Hera



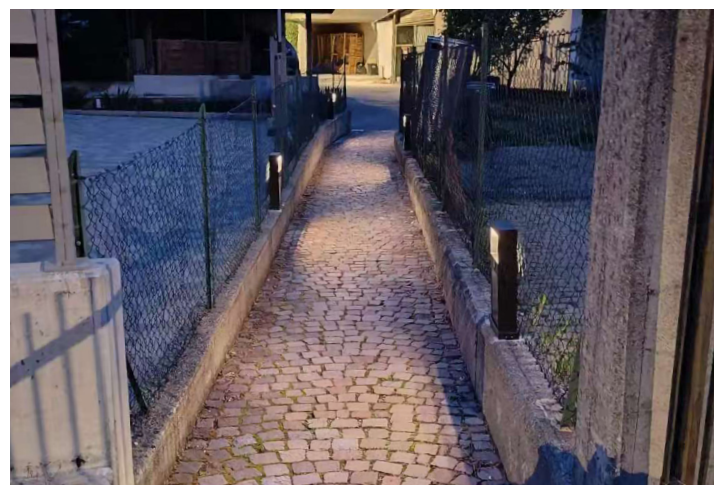
Remote Site & Perimeter Lighting
Installed Solar Lighting System: Hera + Galaxia



Trail & Recreational Pathway Lighting
Installed Solar Lighting System: Hera



Amenity & Landscape Accent Lighting
Installed Solar Lighting System: Jupiter L



Pedestrian Access & Walkway Lighting
Installed Solar Lighting System: Jupiter H

SPORTS LIGHTING SOLUTIONS



Benedictine University Sports Complex | Lisle, IL
Duvon Lighting: Power that Performs

While 360 Solar Lighting focuses exclusively on off-grid, solar-powered lighting systems for commercial, infrastructure, and outdoor applications, Duvon Lighting specializes in high-performance, grid-powered LED solutions engineered for sports lighting, facility illumination, and large-scale commercial projects.

View the separate Duvon Lighting catalog, or learn more at DUVONLIGHTING.COM



SCAN ME
DUVONLIGHTING.COM

SOLAR PRODUCTS

STREET SERIES



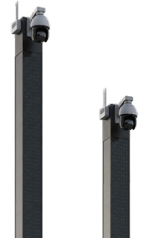
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HERA VERTICAL SOLAR LIGHTING PLATFORM ● ● +

Engineered for extreme flexibility, the Hera systems are designed for easy retrofit onto existing structural poles or new construction deployments. By integrating 360° shingled PV, Hera captures maximum ambient light without the aesthetic or wind-load impact of traditional flat panels. Hera utilizes Apollo – 360 Solar’s high-output LED luminaire.

Efficacy 150-190 lm/W
CCT 2700K – 5000K
CRI ≥ 70 (80 opt.)
IES Type II / III



PROJECT READY
NEW-POLE/RETROFIT



SMART MONITORING
MPPT CONTROLLER



ADAPTIVE DIMMING
12-HR SCHEDULE



NON-INVASIVE INSTALLATION
NO TRENCHING REQUIRED

POWER	SOLAR	BATTERY	AUTONOMY	POLE HEIGHT
20W	200W	12.8V 30Ah	3 Nights	12 - 15 ft
40W	400W	12.8V 60Ah	3 Nights	15 - 20 ft
60W	300W (2×150W modules)	25.6V 45Ah	3 Nights	25 - 30 ft
80W	400W (2×200W modules)	25.6V 60Ah	3 Nights	30 - 35 ft
100W	500W (2×250W modules)	25.6V 75Ah	3 Nights	35 - 40 ft

IP67 / IK08 (battery) • Operating Temperature (Battery): -4°F to 140°F

Low-temperature charging managed by BMS; consult factory for sub-freezing deployments.

Rated to 127 mph (3-sec gust, Exposure C) at the configured EPA and pole; project-specific structural calculations provided on request.

Final solar configuration is determined based on system wattage, location, and autonomy requirements. IES file available.

HERA SOLAR MODULE

The vertical solar panel assembly is engineered for compatibility with a wide range of round pole diameters. The vertical orientation not only supports consistent solar exposure in constrained environments but also maintains a compact, pole-conforming profile that minimizes visual impact and structural load considerations. **Pole diameter range: Ø 2.36 in – 10.43 in.**



LiFePO₄ SUPERIORITY
100,000-HR LIFESPAN



PANEL MAINTENANCE
IP66 & SELF-CLEANING



DEPTH OF DISCHARGE
80% DOD



DOWNTIME
QUICK INSTALLATION

OUTPUT	CONFIGURATION	DIAMETER	HEIGHT	APPLICATION
100W - 200W	18V class	Ø 2.36 ~ 6.61 in	35 - 62 in	Low-height systems
300W - 600W	36V class	Ø 6.61 - 10.63 in	47 - 94 in	Mid to high output systems
1200W (2x600W)	Dual module	Ø 6.61 - 10.63 in	47 - 94 in (x2)	High-output / long runtime

IP66 / IK08 (PV Module) • Operating Temperature (PV Module): -40°F to 122°F





JUNO LED SOLAR STREET LIGHT



Juno delivers reliable, wire-free street lighting through an integrated all-in-one solar design. Built for parks, campuses, and high-volume roadways, it combines high-efficiency solar, long-life battery storage, and durable construction for consistent performance in a wide range of environments. Juno utilizes the Apollo LED Luminaire.

Efficacy 150-190 lm/W
CCT 2700K – 5000K
CRI ≥ 70 (80 opt.)
IES Type II / III



PROJECT READY
NEW-POLE/RETROFIT



SMART MONITORING
MPPT CONTROLLER



ADAPTIVE DIMMING
12-HR SCHEDULE



NON-INVASIVE INSTALLATION
NO TRENCHING REQUIRED

POWER	SOLAR	BATTERY	AUTONOMY	POLE HEIGHT
20W	200W	12.8V 40Ah	3 Nights	20 ft
30W	200W	12.8V 50Ah	3 Nights	26 ft
20W (2×10W LED)	200W (2×100W modules)	12.8V 40Ah (×2)	3 Nights	32 ft
30W (2×15W LED)	200W (2×100W modules)	12.8V 50Ah (×2)	3 Nights	40 ft

IP67 / IK08 (Battery) • Operating Temperature (Battery): -4°F to 140°F
 Low-temperature charging managed by BMS; consult factory for sub-freezing deployments.

Rated to 127 mph (3-sec gust, Exposure C) at the configured EPA and pole; project-specific structural calculations provided on request.

JUNO SOLAR MODULE

The vertical solar panel assembly is engineered for compatibility with a wide range of round pole diameters, enabling flexible integration across diverse project conditions and existing infrastructure. Its adaptable mounting system accommodates common pole gauges without requiring custom fabrication, reducing installation complexity and field modifications.



LiFePO₄ SUPERIORITY
100,000-HR LIFESPAN



PANEL MAINTENANCE
IP66 & SELF-CLEANING



DEPTH OF DISCHARGE
80% DOD



DOWNTIME
QUICK INSTALLATION

OUTPUT	CONFIGURATION	DIAMETER	HEIGHT	APPLICATION
100W	Small Vertical Module	Ø 2.36 ~ 6.61 in	31.2 in	Low-height systems
150W	Medium Vertical Module	Ø 2.36 ~ 6.61 in	48 in	Mid to high output systems
200W	Large Vertical Module	Ø 2.36 ~ 6.61 in	62.4 in	High-output / extended runtime

IP66 / IK08 (PV Module) • Operating Temperature (PV Module): -40°F to 122°F
Low-temperature charging managed by BMS; consult factory for sub-freezing deployments.





MARS SOLAR PEDESTRIAN & AREA LIGHTING



The Mars Series is an architectural solar lighting column engineered for parking lots, pedestrian walkways, plazas, and high-end campus environments. By integrating the high-efficiency solar array and LiFePO₄ battery storage directly into the extruded 6063-T6 aluminum anchor bolt pole, Mars delivers a clean column profile in a standard black finish.

Efficacy 150-170 lm/W
CCT 2700K – 5000K
CRI ≥ 70 (80 opt.)
IES Type II / III



COMPONENTS
POLE-INTEGRATED



SMART MONITORING
MPPT CONTROLLER



LiFePO₄ SUPERIORITY
100,000-HR LIFESPAN



ADAPTIVE DIMMING
12-HR SCHEDULE

CONFIG	POWER	SOLAR	BATTERY	AUTONOMY	POLE HEIGHT
Single	30W	300W	12.8V 45Ah	3 Nights	10 / 12 ft
Single	60W	600W	25.6V 45Ah	3 Nights	13 / 15 / 18 ft
Double	60W (2x30W modules)	600W	12.8V 45Ah (x2)	3 Nights	13 / 15 / 18 ft
Tiered	60W & 30W	900W	25.6V 45Ah & 12.8V 45Ah	3 Nights	13 / 15 / 18 ft

IP67 / IK08 (Battery) • -4°F to 140°F (Battery) • -40°F to 185°F (PV Module)

Low-temperature charging managed by BMS; consult factory for sub-freezing deployments.

Rated to 127 mph (3-sec gust, Exposure C) at the configured EPA and pole; project-specific structural calculations provided on request.

Final solar configuration is determined based on system wattage, location, and autonomy requirements. IES file available.



MARS SOLAR SMART POLE



Integrated solar smart monitoring pole featuring a quadrilateral form with vertical solar panels for efficient energy capture. Supports CCTV and PTZ camera configurations, with remote system control enabling real-time device management and battery charge/discharge monitoring via mobile interface.

Efficacy 150-170 lm/W
CCT 2700K – 6500K
CRI ≥ 70 (80 opt.)
IES Type V



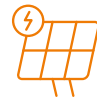
DETERRENCE
SECURITY CCTV



SMART MONITORING
MPPT CONTROLLER



LiFePO₄ SUPERIORITY
100,000-HR LIFESPAN



PANEL / HPBC MONO
≥26% CELL EFFICIENCY

POWER	SOLAR	BATTERY	AUTONOMY	POLE HEIGHT
25W	280W (4×70W modules)	12.8V 42Ah	3 Nights	11.5 ft
35W	560W (8×70W modules)	12.8V 42Ah	3 Nights	20 ft
50W	840W (12×70W modules)	25.6V 42Ah	3 Nights	26 ft

IP67 / IK08 • -4°F to 140°F (Battery) • -40°F to 185°F (PV Module)

Low-temperature charging managed by BMS; consult factory for sub-freezing deployments.

Rated to 127 mph (3-sec gust, Exposure C) at the configured EPA and pole; project-specific structural calculations provided on request.



GALAXIA ALL-IN-ONE SOLAR SYSTEM



The Galaxia All-in-One (AIO) is a municipal-grade solar lighting system engineered for 12-hour continuous nightly operation. By integrating high-efficacy Philips LEDs, deep-cycle LiFePO₄ storage, and MPPT control into a single aluminum housing, it provides a zero-wiring off-grid solution with up to 190 lm/W system efficacy.

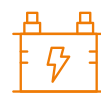
Efficacy 150-190 lm/W
CCT 2700K – 5000K
CRI ≥ 70 (80 opt.)
IES Type II / III



SMART MONITORING
IOT & SMART SENSOR



SMART MONITORING
MPPT CONTROLLER



LiFePO₄ SUPERIORITY
100,000-HR LIFESPAN



ADAPTIVE DIMMING
12-HR SCHEDULE

POWER	SOLAR	BATTERY	AUTONOMY	POLE HEIGHT
15W	15W	12.8V 15Ah	1 Night	12 - 15 ft
20W	20W	12.8V 15Ah	1 Night	12 - 15 ft
40W	40W	12.8V 20Ah	1 Night	20 - 25 ft
60W	60W	12.8V 30Ah	1 Night	25 - 30 ft
80W	80W	12.8V 40Ah	1 Night	30 - 35 ft
100W	100W	12.8V 60Ah	1 Night	35 - 40 ft

IP65 / IK10 • -4°F to 140°F (Battery) • -22°F to 140°F (PV Module)

Low-temperature charging managed by BMS; consult factory for sub-freezing deployments.

Rated to 127 mph (3-sec gust, Exposure C) at the configured EPA and pole; project-specific structural calculations provided on request.

Final solar configuration is determined based on system wattage, location, and autonomy requirements. IES file available.



GALAXIA ALL-IN-TWO SOLAR CAPTURE



The Galaxia All-in-Two (A12) Series is a modular solar lighting system engineered for roadways, arterial streets, and heavy infrastructure. With all the benefits included in the AIO, the additional photovoltaic module maximizes energy harvesting through scalable panel sizing and significantly improves LiFePO4 battery longevity through thermal isolation.

Efficacy 150-190 lm/W
CCT 2700K – 5000K
CRI ≥ 70 (80 opt.)
IES Type II / III



PROJECT READY
NEW-POLE/RETROFIT



SMART MONITORING
MPPT CONTROLLER



MODULAR
SCALABLE PANELS



THERMAL ISOLATION
LONGER BATTERY LIFE

POWER	SOLAR	BATTERY	AUTONOMY	POLE HEIGHT
20W	40W	12.8V 20Ah	2 Nights	12 - 15 ft
40W	80W	12.8V 40Ah	2 Nights	20 - 25 ft
60W	120W	12.8V 60Ah	2 Nights	25 - 30 ft
80W	160W	25.6V 40Ah	2 Nights	30 - 35 ft
100W	200W	25.6V 50Ah	2 Nights	35 - 40 ft

IP65 / IK10 • -4°F to 140°F (Battery) • -22°F to 140°F (PV Module)

Low-temperature charging managed by BMS; consult factory for sub-freezing deployments.

Rated to 127 mph (3-sec gust, Exposure C) at the configured EPA and pole; project-specific structural calculations provided on request.

Final solar configuration is determined based on system wattage, location, and autonomy requirements. IES file available.



TITAN ALL-IN-TWO SPLIT-SYSTEM



The Titan Series is an All-in-Two (A12) modular solar lighting platform engineered for roadway and infrastructure illumination. The A12 system separates photovoltaic generation and battery storage from the Apollo LED luminaire, maximizing thermal management efficiency to support high output and demanding autonomy standards.

Efficacy 150-190 lm/w
CCT 2700K – 5000K
CRI ≥ 70 (80 opt.)
IES Type II / III



PROJECT READY
NEW-POLE/RETROFIT



SMART MONITORING
MPPT CONTROLLER



LiFePO₄ SUPERIORITY
100,000-HR LIFESPAN



ADAPTIVE DIMMING
12-HR SCHEDULE

POWER	SOLAR	BATTERY	AUTONOMY	POLE HEIGHT
15W	100W	12.8V 35Ah	3 Nights	12 - 15 ft
25W	100W	12.8V 60Ah	3 Nights	20 - 30 ft
40W	100W (2×50W modules)	25.6V 50Ah	3 Nights	25 - 30 ft
80W	100W (2×50W modules)	25.6V 60Ah	3 Nights	30 - 35 ft
100W	100W (2×50W modules)	25.6V 70Ah	3 Nights	35 - 40 ft

IP65 / IK08 • -4°F to 140°F (Battery) • -40°F to 140°F (PV Module)

Low-temperature charging managed by BMS; consult factory for sub-freezing deployments.

Rated to 127 mph (3-sec gust, Exposure C) at the configured EPA and pole; project-specific structural calculations provided on request.

Preliminary – consult factory | Final solar configuration is determined based on system wattage, location, and autonomy requirements. IES file available.



PATRIOT SOLAR SPORTS & COURT-GRADE



Patriot Solar is engineered as a high-capacity solar retrofit platform for sports. By separating high-output luminaires from high-wattage PV arrays, Patriot delivers professional-grade illumination without the need for grid connection, trenching, or utility transformer upgrades.

Efficacy 125-140 lm/W
CCT 2700K – 5000K
CRI ≥ 70 (80 opt.)
IES Type IV (Asym.)



PROJECT READY
NEW-POLE/RETROFIT



SMART MONITORING
MPPT CONTROLLER



MODULAR
SCALABLE PANELS



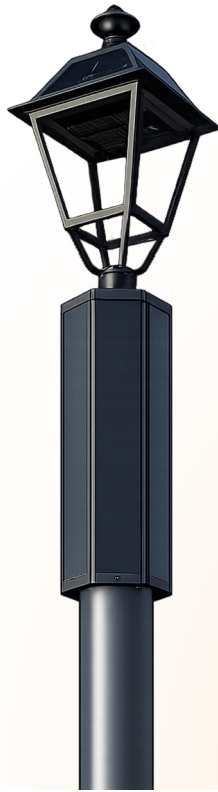
ADAPTIVE DIMMING
12-HR SCHEDULE

POWER	SOLAR	BATTERY	AUTONOMY	POLE HEIGHT
100W	100W	12.8V 45Ah	1 Night	20 - 25 ft
150W	150W	12.8V 60Ah	1 Night	25 - 30 ft
200W	200W	25.6V 45Ah	1 Night	30 - 45 ft

IP65 / IK08 • -4°F to 140°F (Battery) • -40°F to 131°F (PV Module)

Low-temperature charging managed by BMS; consult factory for sub-freezing deployments.

Rated to 127 mph (3-sec gust, Exposure C) at the configured EPA and pole; project-specific structural calculations provided on request.



ARES SOLAR POST TOP LED



The Ares Series is an integrated off-grid solar lighting system designed for parks, pathways, campuses, and pedestrian environments. Engineered as a utility-grade product platform, deep-cycle LiFePO₄ storage and advanced IoT-ready MPPT control for reliable year-round operation.

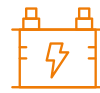
Efficacy 150-170 lm/W
CCT 2700K – 5000K
CRI ≥ 70 (80 opt.)
IES Type V



PROJECT READY
NEW-POLE/RETROFIT



SMART MONITORING
MPPT CONTROLLER



LiFePO₄ SUPERIORITY
100,000-HR LIFESPAN



ADAPTIVE DIMMING
12-HR SCHEDULE

POWER	SOLAR	BATTERY	AUTONOMY	POLE HEIGHT
20W	200W	12.8V 30Ah	3 Nights	10 - 15 ft
30W	300W	12.8V 45Ah	3 Nights	12 - 18 ft
40W	400W	12.8V 60Ah	3 Nights	15 - 20 ft
50W	500W	12.8V 75Ah	3 Nights	15 - 20 ft
60W	600W	25.6V 45Ah	3 Nights	20 - 25 ft

IP65 / IK10 • -4°F to 140°F (Battery) • -22°F to 140°F (PV Module)

Low-temperature charging managed by BMS; consult factory for sub-freezing deployments.

Rated to 127 mph (3-sec gust, Exposure C) at the configured EPA and pole; project-specific structural calculations provided on request.

Final solar configuration is determined based on system wattage, location, and autonomy requirements. IES file available.



MERCURY SOLAR WAYFINDING LED



The Mercury solar area light combines a slim profile with high-performance solar technology for pathways, parks, gardens, and urban spaces. Integrated photovoltaic panels and a built-in LiFePO4 battery deliver reliable, efficient lighting with simple no-trenching required.

Efficacy 150-170 lm/W
CCT 2700K – 5000K
CRI ≥ 70 (80 opt.)
IES Type V



COMPONENTS
POLE-INTEGRATED



SMART MONITORING
MPPT CONTROLLER



LiFePO₄ SUPERIORITY
100,000-HR LIFESPAN



ADAPTIVE DIMMING
12-HR SCHEDULE

POWER	SOLAR	BATTERY	AUTONOMY	POLE HEIGHT
0W - 16W	100W	12.8V 24Ah	3 Nights	9.8 ft
16W - 25W	120W	12.8V 42Ah	3 Nights	13 ft
25W - 50W	2×120W	25.6V 42Ah	3 Nights	16.5 ft

IP65 / IK08 • -4°F to 140°F (Battery) • -40°F to 185°F (PV Module)

Low-temperature charging managed by BMS; consult factory for sub-freezing deployments.

Rated to 127 mph (3-sec gust, Exposure C) at the configured EPA and pole; project-specific structural calculations provided on request.



JUPITER-H LOW-PROFILE SOLAR LED



The Jupiter Series is a modular solar bollard platform designed for pathways, parks, campuses, public spaces, and architectural environments requiring reliable off-grid illumination. Integrated high-efficacy LEDs and LiFePO4 battery storage deliver dependable performance in a compact form factor, while multiple housing options and model-specific lighting distributions support pathway, decorative, and perimeter applications with a consistent modern design.

Efficacy Up to 200 lm/W
CCT 2700K – 5000K
CRI ≥ 70 (80 opt.)
IES Type I / IV / V

Shared Specifications Across All Jupiter Models



FULL SYSTEM
ALL-IN-ONE



SMART MONITORING
MPPT CONTROLLER



LOW-PROFILE
COMPACT SYSTEM



UPKEEP
LOW-MAINTENANCE

POWER	SOLAR	BATTERY	AUTONOMY	FIXTURE HEIGHT
1.5W	8W x1 / x2	12.8V 2Ah	~1-2 Nights	1.5 ft
3W	17W x1 / x2	12.8V 4Ah	~1-2 Nights	3 ft
5W	25W x1 / x2	12.8V 8Ah	~1-2 Nights	4 ft

IP65 / IK08 • -4°F to 140°F (Battery) • -13°F to 140°F (PV Module)
 Low-temperature charging managed by BMS; consult factory for sub-freezing deployments.



JUPITER-L



Cantilever bollard design optimized for directional pathway illumination with a clean architectural profile and integrated solar power system.



FULL SYSTEM
ALL-IN-ONE



SMART MONITORING
MPPT CONTROLLER



LOW-PROFILE
COMPACT SYSTEM

POWER	SOLAR	BATTERY	AUTONOMY	FIXTURE HEIGHT
1.5W	8W x1 / x2	12.8V 2Ah	~1-2 Nights	1.5 ft
3W	17W x1 / x2	12.8V 4Ah	~1-2 Nights	3 ft
5W	25W x1 / x2	12.8V 8Ah	~1-2 Nights	4 ft

IP65 / IK08 • -4°F to 140°F (Battery)



JUPITER-S



Lantern-style solar bollard engineered for decorative area lighting and pedestrian visibility with 360-degree light distribution and contemporary styling.



FULL SYSTEM
ALL-IN-ONE



SMART MONITORING
MPPT CONTROLLER



LOW-PROFILE
COMPACT SYSTEM

POWER	SOLAR	BATTERY	AUTONOMY	FIXTURE HEIGHT
3W	17W x1 / x2	12.8V 4Ah	~1-2 Nights	3 ft
5W	25W x1 / x2	12.8V 8Ah	~1-2 Nights	4 ft

IP65 / IK08 • -4°F to 140°F (Battery)



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