



Solar
Lighting™



PATRIOT LED Solar Court Lighting

The Patriot Solar Court Light brings the performance and reliability of the Duvon™ court series into a fully self-contained, two-in-one solar solution. Designed specifically for sports and recreational courts, Patriot integrates high-output LED optics with an onboard solar power system, eliminating trenching, utility coordination, and long-term energy costs.



NO ELECTRIC BILLS



EASY INSTALLATION



RELIABLE LIGHTING ANYTIME



LOW MAINTENANCE



VERSATILE APPLICATIONS



SUSTAINABLE

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All technical specifications and datas are subject to modification at any time and without notice.
Contact us for the most up-to-date information or visit www.360solarlighting.com
710 Armstrong Dr, Buffalo Grove, IL 60089 / Phone: (224) 567-8312 / Email: sales@360solarlighting.com



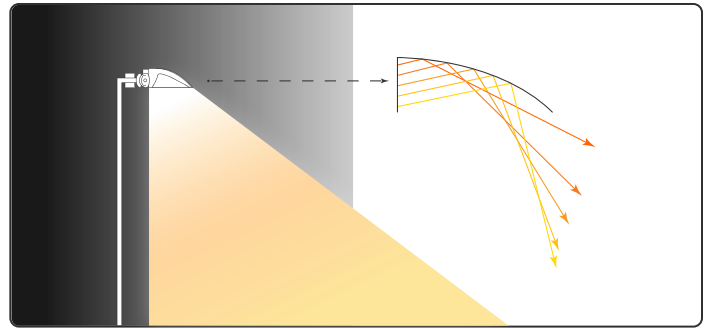
Solar Lighting™

a DUVON Company

What Sets 360 Solar Lighting Apart?

- **Real Manufacturer Advantage** – We're not a reseller. We design, manufacture, and supports every lighting system we sell.
- **18+ Years of Expertise** – Proven reliability across sports, solar, and high-output LED markets.
- **Complete Turnkey System** – Our G1-S1 Series includes the solar panel, controller, battery, light fixture, and lighting pole—engineered as one unit.
- **Advanced Fixture Technology:**
 - Glare-free, full cut-off optics
 - Smart controls (MPPT)
 - Corrosion-resistant die-cast aluminum body
 - Output: 100W / 150W / 200W LED @ 150LM/W
 - Optics: Aluminum reflector assembly
- **U.S.-Based Support** – From layout design to technical service, our dedicated team is here for you.

**Full Cut-off
Asymmetric Indirect Light Design**
Italian Light Reflector Delivers 98% Source Illumination
Nichia Chips



Solar Panel & Battery Technology

- **Tier-1 Monocrystalline Solar Panels** – 21%+ efficiency, project-sized for optimal voltage
- **Smart MPPT Controller** – Optimizes charging and battery protection
- **LiFePO4 Battery** – Long-life lithium battery with 3,000+ deep cycles
- **30+ Day Autonomy** – Safe and maintenance-free
- **System Autonomy** – Up to 3+ days of backup for cloudy weather
- **Custom Battery Sizing** – Designed for your lighting hours (e.g., 2–6 hours per night)

Included Design & Engineering Services

- AGi32 Photometric Design Simulations
- CAD Court Layout and Pole Placement Drawings
- Custom Solar System Sizing by Sun Hour Zone
- Dark Sky-Compliant Solutions

Recommended Tennis Court Lighting Layouts

Layout | Poles | Wattage | Use Case

- 4-Pole | 4 | 100 / 150 / 200W | Entry-level / single court
- 6-Pole | 6 | 100 / 150 / 200W | Standard court brightness
- 8-Pole | 8 | 100 / 150 / 200W | Tournament / high-end use

Recommended Pickleball Court Lighting Layouts

Layout | Poles | Wattage | Use Case

- 2-Pole | 2 | 100 / 150 / 200W | Compact setup for single court
- 4-Pole | 4 | 100 / 150 / 200W | Balanced, recreational lighting
- 6-Pole | 6 | 100 / 150 / 200W | Multi-court / pro-level setups

Warranty Support

- 10-Year Warranty – On all LED lighting fixtures
- 20-Year Warranty – On solar panels
- LiFePO4 Battery Life – Over 3,000 charge cycles
- Extended Service Plans – Optional upgrade available
- U.S.-Based Spare Parts & Tech Support



Patriot Specification Standard

Performance & Environmental Ratings	
Available Beam Angles	Full cut-off / Indirect asymmetric
Operating Temp	-40°F to 131°F
Protection Rating	IP65 (IP67 & IP 68 Components)
Rated Life	L70 ≥ 50,000 hrs
Warranty	10 years

Lumen Output	
APL-LHM100N (100W)	13,265 lm
APL-LHM150N (150W)	20,556 lm
APL-LHM200N (200W)	25,174 lm

Construction & Mounting	
Housing Material	Die-cast aluminum
Finish	Outdoor rated powder coating
Color Options	Black / Grey / Green / Custom
Weight	39.6 lbs
Mounting	Adjustable yoke bracket (accs. available)

Electrical & Control Components	
LED Chips	Nichia
Drivers	Meanwell / Inventronics
Surge Protection	10kv / 20kv (opt.)
Controls	Smart control available (opt.)
EPA	0.75 ft² – 1.25 ft²

Smart Network Lighting Control available upon request.
Example IES files available.

Ordering Information

Select one option from each column to build the model number. Contact Duvon™ for custom options.

Ex: 12 – DV–LHM100N – 100 – Black – 5K – 70 – 100-277V – ADV-R – SC

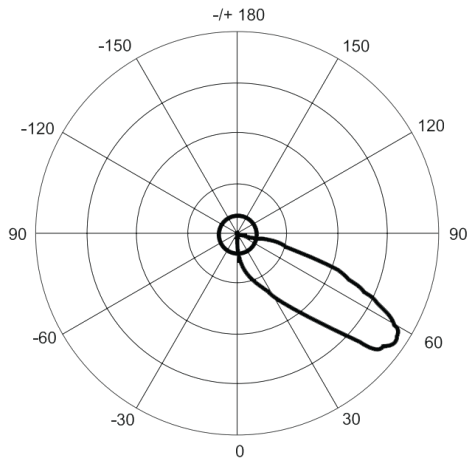
Qty.	Model No.	Watts	Color	CCT	CRI	Input Power	Accessories	Smart Ctrl (opt.)
	DV-LHM100N	100	Black	3K = 3000K	70	100-277V	ADV-R = G1-SI-ADV-R	SC = Included
	DV-LHM150N	150	Grey	4K = 4000K	80	277-480V	ADV-S = G1-SI-ADV-S	[Blank] = None
	DV-LHM200N	200	Green	5K = 5000K	90			

Standard stock: 5000K CCT | 70 CRI (3000K – 6500K CCT / Other CRI options available).

Specifications subject to site conditions and engineering requirements.

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Luminous Intensity Distribution

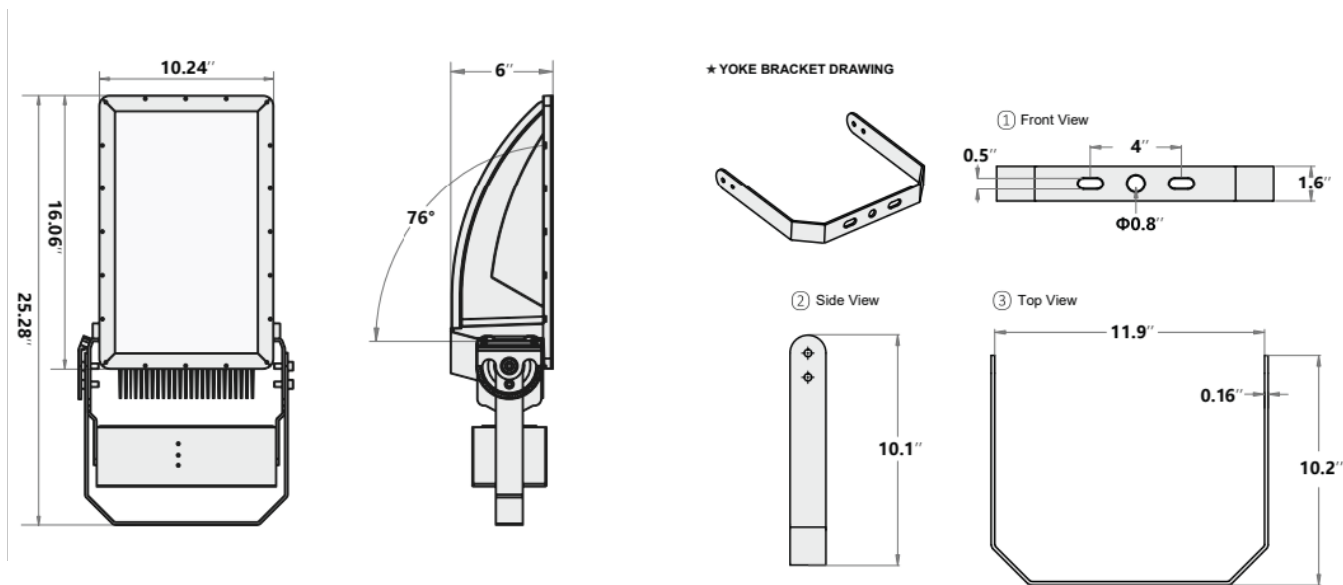


Electrical Data – Input Current (Amps)

(Nominal value shown; actual values may vary by driver configuration...)

Input Voltage	100W	150W	200W
110V	0.90A	1.36A	1.82A
240V	0.42A	0.63A	0.83A
277V	0.36A	0.54A	0.72A
480V	0.20A	0.31A	0.42A

Dimensions



Mounting Accessories

Add accessory part numbers in the ordering information. Slipfitter adapters and arms are customizable.
Standard color: Black (other colors available).



GI-SI-ADV-R



GI-SI-ADV-S



Adjustment Guide

Horizontal installation is recommended for court lighting. Adjustable mounts with tilt angle options are available.
Yoke bracket supports a 180° adjustable tilt.

