



HIGHLIGHT SP-DSBL

**Off-Grid Solar Lighting for
Residential Streets and Public
Spaces**

POWERFUL BENEFITS: WHY BEAT THE GRID?



SAVES MONEY FROM DAY ONE

Eliminates trenching, wiring, and grid connection requirements.

Fully off-grid operation avoids utility coordination, infrastructure delays, and ongoing electricity costs.



RELIABLE NIGHTTIME OPERATION

Solar energy generated during the day is stored in high-capacity lithium batteries, enabling reliable dusk-to-dawn illumination with autonomous operation.



MINIMAL MAINTENANCE REQUIRED

High-quality lithium battery storage and efficient system design support long service life with minimal maintenance in off-grid applications.



VERTICAL SOLAR INNOVATION

Curved CIGS flexible solar modules integrated on the pole provide efficient energy capture with high wind resistance and reduced visual clutter.

ADVANCED VERTICAL TECHNOLOGY

Rugged Mounting Poles

- Engineered to support vertically integrated curved CIGS solar modules
- Designed for long-term outdoor use and high wind-load environments

Energy Storage

- High-capacity lithium battery system for off-grid operation
- Designed for long service life with minimal maintenance requirements



360° Vertical Solar Wrap

- Curved CIGS amorphous flexible solar modules integrated around the pole
- Self-cleaning design improves long-term performance in outdoor conditions

Smart Power Control

- MPPT (Maximum Power Point Tracking) solar charge controller
- Programmable operation profile based on solar availability

Warranty & Reliability

SolarPath solar lighting systems are engineered for autonomous off-grid operation and long-term reliability in demanding outdoor environments.

System components are selected and tested to support durable performance and consistent operation over time.

Component	Warranty Coverage
Solar Modules	Performance warranty up to 10/25 years against power loss
Battery System (LiFePO4)	Expected service life up to 10 years (application dependent)
LED Luminaire, MPPT Controller & Smart Electronics	Manufacturer warranty
Pole & Structural Components	Designed to comply with applicable local wind-load requirements

Warranty terms may vary based on system configuration and project conditions. Full warranty details are available upon request.



Applications & Use Cases

Streets Lighting - Provides consistent, pedestrian-scale area lighting for low-speed streets and internal roadways. Off-grid operation enables reliable illumination without trenching or grid connection.

Parking Lots - Delivers uniform nighttime lighting for parking areas, improving visibility and safety. Autonomous solar operation eliminates the need for electrical wiring and ongoing energy costs.

Residential Roads - Designed to support lighting requirements within residential neighborhoods and community streets. Optimized for internal roads and shared access routes with minimal visual impact.

Public Parks - Ideal for parks and open public spaces where safety, aesthetics, and low maintenance are essential. Off-grid installation allows deployment without disturbing existing landscapes or infrastructure.

Sports & Recreation Areas - Provides supplemental lighting for recreational and community sports spaces. Suitable for pedestrian-oriented and non-competitive environments where full high-mast lighting is not required.

This product is intended for area and pedestrian-scale illumination and is not designed for high-speed roadways or high-mast lighting applications.

Technical Overview

- **Solar module type** - Solar module type – CIGS amorphous flexible solar panel wrap integrated on pole
- **Total solar power** - Up to 540W
- **Number of solar modules** - Up to 3 wrap panels
- **Battery type** - Lithium battery system (LiFePO₄)
- **Battery capacity** - Up to 150Ah
- **Charge controller** - MPPT (Maximum Power Point Tracking)
- **LED power** - Up to 60W (up to 7,404 lm)
- **CCT options** - 3000K / 6500K
- **CRI** - >81
- **IP rating** - IP66
- **Operating temperature** - 26°F to 113°F
- **Pole height** - Up to 25 ft

System configuration may include an optional auxiliary 30W solar panel integrated on the luminaire to support charging under specific site conditions.

Final system configuration may vary based on site conditions and project requirements.

HOW TO SPECIFY & ORDER



Each SolarPath system is configured based on project-specific requirements, site conditions, and lighting performance needs.

- **DEFINE SITE CONDITIONS AND APPLICATION REQUIREMENTS**
- **ESTABLISH LIGHTING LEVELS AND OPERATING PROFILE**
- **CONFIGURE SYSTEM COMPONENTS AND SYSTEM CAPACITY**
- **APPROVE FINAL CONFIGURATION AND ASSIGN A CONFIGURATION CODE**

Each approved configuration is assigned a unique SolarPath configuration code used for manufacturing and ordering.

LIGHTING DESIGN & PHOTOMETRIC SUPPORT

LIGHTING DESIGN AND PHOTOMETRIC LAYOUTS ARE AVAILABLE UPON REQUEST TO SUPPORT PROPER SYSTEM SPECIFICATION AND PLACEMENT.

IMPORTANT NOTES

- System performance depends on site conditions and available solar resources
- Specifications shown are representative and may vary by configuration
- All system configurations are reviewed and approved prior to manufacturing

ORDERING GUIDE

Example: SP-DSBL-A-85W-20W-2-30K-60AH-16FT-BLK-00

Model	Solar Panel qty	Solar Panel	Distribution Type	LED Color Temp	Battery capacity	Pole Height	Body Color	Options
SP-DSBL	A-1 Panel B-2 Panels C- 3 Panels	85W 90W 100W 150W 180W	2 – Type II 5 – Type V	30K 60K	60AH 100AH 120AH 150AH	16 FT 20FT 25 FT	BLK- Black *Other colors available upon request	00 - No motion sensor 01 – With motion sensor



Contact Us

Website



www.solarpathusa.com

Phone



201-490-4499

E-mail



contact@solarpathusa.com
