



HIGHLIGHT SPWSPDL

Off-Grid Vertical Solar Lighting for Area & Pedestrian Environments

POWERFUL BENEFITS: WHY BEAT THE GRID?



SAVES MONEY FROM DAY ONE

Eliminates trenching, wiring, and grid connection requirements.

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



RELIABLE NIGHTTIME OPERATION

Solar energy generated during the day is stored in high-quality lithium batteries, enabling consistent nighttime illumination with autonomous operation.



NO SCHEDULED MAINTENANCE REQUIRED

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



VERTICAL SOLAR INNOVATION

CIGS flexible solar modules wrapped directly on the pole allow efficient energy capture without exposed panels or visual clutter.

ADVANCED VERTICAL TECHNOLOGY

Rugged Mounting Poles

- Designed to support vertical solar module integration
- Suitable for a range of outdoor environments

Energy Storage

- High-quality lithium battery system
- Designed for long service life in off-grid applications



360° Vertical Solar Wrap

- CIGS amorphous flexible solar panel wrap integrated on pole
- Designed for efficient solar collection in off-grid applications

Smart Power Control

- MPPT (Maximum Power Point Tracking) solar charge controller
- Optimized for autonomous off-grid solar lighting systems

Warranty & Reliability

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

All system components are selected and tested to ensure reliability, durability, and consistent performance over time.

Component	Warranty Coverage
Solar Modules	Performance warranty up to 10 years
Battery System (LiFePO4)	Expected service life up to 10 years
LED Luminaire, MPPT Controller & Smart Electronics	Manufacturer warranty
Pole & Structural Components	Designed to meet local wind-load requirements

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

Applications & Use Cases

Streets Lighting - Provides consistent and uniform area lighting for low-speed streets and internal roadways where trenching and grid connection are impractical. Fully off-grid operation enables reliable illumination without reliance on utility infrastructure.

Parking Lots - Delivers effective area lighting for parking lots, enhancing visibility and safety during nighttime hours. Autonomous solar operation eliminates the need for electrical wiring and ongoing electricity costs.

Residential Roads - Supports lighting requirements within residential communities, including internal roads and shared access routes. Designed for pedestrian-scale environments with a focus on reliability and minimal visual impact.

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

Sports Lighting - Provides supplemental lighting for recreational and community sports areas requiring area-scale illumination. Suitable for non-competitive, pedestrian-oriented sports environments where full-grid 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** - CIGS amorphous flexible solar panel wrap on pole
- **Total solar power** - up to 360W
- **Number of solar modules** - up to 2
- **Battery type** - LiFePO lithium battery
- **Battery capacity** - up to 40Ah
- **Charge controller** - MPPT (Maximum Power Point Tracking)
- **LED power** - 30W (up to 4,500 lm)
- **CCT options** - 3000K-6000K
- **CRI** - >81
- **IP rating** - IP65
- **Operating temperature** - -4°F to 131°F
- **Pole height** - up to 19 ft

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 needs.

- **DEFINE SITE AND APPLICATION REQUIREMENTS**
- **ESTABLISH LIGHTING AND OPERATING PROFILE**
- **CONFIGURE SYSTEM COMPONENTS**
- **APPROVE FINAL CONFIGURATION AND ASSIGN 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 available upon request.

IMPORTANT NOTES

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

ORDERING GUIDE

EXAMPLE: HL-SPWSPDL-A-85W-30W-40K-40AH-GR-00

Model	Solar Panel qty	Solar Panel	Led Power	LED Color Temp	Battery capacity	Pole Height	Body Color
HS-SPSHB	A-1 panel B-2 panels	85W 90W 100W 150W 180W	30W	30K 40K 50K 60K	40AH	13 FT 15 FT 17 FT 19 FT	GR - Grey *Other colors available upon request



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