



# HIGHLIGHT SPWSPDL-LA

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-quality lithium batteries, enabling reliable dusk-to-dawn nighttime 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

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

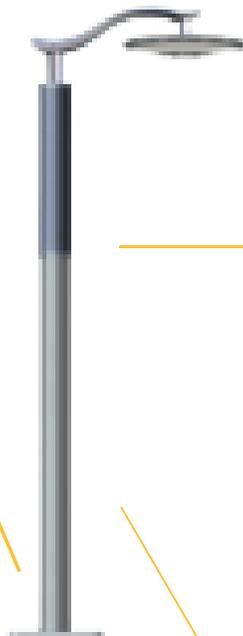
# ADVANCED VERTICAL TECHNOLOGY

## Rugged Mounting Poles

- Engineered to support integrated vertical CIGS solar wrap modules
- Suitable for long-term outdoor use in residential and public applications

## Energy Storage

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



## 360° Vertical Solar Wrap

- CIGS amorphous flexible solar modules wrapped directly around the pole
- Enables efficient solar energy collection in limited space and partial shading conditions

## Smart Power Control

- MPPT (Maximum Power Point Tracking) solar charge controller
- Optimized for autonomous dusk-to-dawn off-grid lighting operation

# Warranty & Reliability

SolarPath solar lighting systems are engineered for autonomous off-grid operation and long-term reliability in 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 years (power output)
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** - CIGS amorphous flexible solar panel wrap integrated on pole
- **Total solar power** - Up to 180W
- **Number of solar modules** - Up to 2 wrap panels
- **Battery type** - Lithium battery system (LiFePO<sub>4</sub>)
- **Battery capacity** - Up to 150AH
- **Charge controller** - MPPT (Maximum Power Point Tracking)
- **LED power** - 30W (up to 2,454 lm)
- **CCT options** - 3000K / 6000K
- **CRI** - >81
- **IP rating** - IP65
- **Operating temperature** – -4°F to 131°F
- **Pole height** - Up to 19 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: SPWSPDL-LA-A-85W-30W-30K-40AH-13FT-GR**

Model	Solar Panel qty	Solar Panel	Led Power	LED Color Temp	Battery capacity	Pole Height	Body Color
SPWSPDL-LA	A-1 panel B-2 panels	85W 90W 100W 150W 180W  *Additional 30W solar panel on LED fixture	30W	30K 60K	30AH 40AH 50AH 60AH 80AH 100AH 120AH 150AH	13 FT 15 FT 17 FT 19 FT	GR - Grey  *Other colors available upon request



# Contact Us

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