

HIGHLIGHT SP-WPTS

Solar Street Lighting
System



POWERFUL BENEFITS: WHY BEAT THE GRID?



SAVES MONEY FROM DAY ONE

Eliminates trenching, underground wiring, and utility connection costs.

Reduces installation time and ongoing electricity expenses.



RELIABLE NIGHTTIME OPERATION

Daytime solar energy is stored in integrated LiFePO₄ batteries to support autonomous dusk-to-dawn operation.

Designed to support high-output area lighting up to 13,000 lumens.



MINIMAL MAINTENANCE REQUIRED

Integrated system design and lithium battery technology support extended service life and reduced maintenance requirements.



VERTICAL SOLAR INNOVATION

CIGS amorphous flexible solar panel wrap integrated directly onto the pole.

Enhanced wind resistance and improved shading tolerance compared to conventional top-mounted solar configurations.

ADVANCED VERTICAL TECHNOLOGY

Rugged Mounting Poles

- Designed for long-term outdoor installation
- Supports up to 4 integrated CIGS solar wrap panels
- Engineered for structural durability in outdoor environments

High-Performance Luminaire

- LED power – up to 100W (up to 13,000 lm)
- Available in 3000K–6000K and Amber
- CRI ≥ 81
- Designed for high-output area illumination applications



360° Vertical Solar Wrap

- CIGS amorphous flexible solar panel wrap integrated directly onto the pole
- Cylindrical 360° configuration for optimized solar exposure throughout the day
- Designed for improved wind-load resistance and shading tolerance

Smart Power Control

- MPPT (Maximum Power Point Tracking) solar charge controller
- LiFePO₄ battery system – up to 150Ah
- Manual / Automatic / Time control modes
- Autonomous dusk-to-dawn operation

Warranty & Reliability

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

All major system components are selected and tested to ensure durability, performance consistency, and compliance with applicable standards.

Component	Warranty Coverage
Solar Modules	10-year product warranty 25-year performance warranty (power output)
Battery System (LiFePO4)	Expected service life up to 10 years (application dependent)
LED Luminaire, MPPT Controller & Smart Electronics	Manufacturer warranty – coverage period subject to component specification
Pole & Structural Components	Structural design engineered to comply with applicable local wind-load standards

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

Applications & Use Cases

Urban & Residential Streets - Urban & Residential Streets

Suitable for neighborhood roads and secondary streets requiring reliable area illumination.

Commercial Parking Areas - Designed for small to mid-size commercial parking lots requiring consistent off-grid lighting performance.

Public Parks & Pathways - Provides uniform dusk-to-dawn illumination in public parks, pedestrian walkways, and community spaces.

Residential Developments - Well-suited for gated communities, entry roads, and shared outdoor areas requiring enhanced illumination.

Recreational & Multi-Use Areas - Effective for general recreational spaces, courts, and open-use areas where high-output area lighting is required.

Remote or Grid-Limited Locations - Designed for autonomous operation in areas where grid extension is impractical. System configuration should be selected based on photometric design and available solar resources.

This product is intended for area lighting applications and is not designed for high-mast or highway applications unless specified.

Technical Overview

- **Solar module type** - CIGS amorphous flexible solar panel wrap integrated onto the pole
- **Total solar power** - Up to 720W
- **Number of solar modules** - Up to 4 panels
- **Solar charge controller** - MPPT (Maximum Power Point Tracking) solar charge controller
- **Battery type** - LiFePO₄ battery system
- **Battery capacity** - Up to 150Ah
- **LED power** - Up to 100W (up to 13,000 lm)
- **Distribution type** - Type IV / Type V
- **CCT options** - 3000K-6000K / Amber
- **CRI** - ≥81
- **Control modes** - Manual ON/OFF / Automatic ON/OFF / Time control
- **Operation profile** - Dusk-to-dawn (dependent on solar radiation)
- **IP rating** - IP65
- **Operating temperature** - -31°F to 122°F

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

HOW TO SPECIFY & ORDER

SolarPath vertical solar lighting systems are fully configurable and engineered as project-specific solutions tailored to site conditions and performance requirements.

- **DEFINE SITE CONDITIONS AND APPLICATION REQUIREMENTS**
- **ESTABLISH LIGHTING LEVELS AND OPERATING PROFILE**
- **CONFIGURE SYSTEM COMPONENTS AND CAPACITY**
- **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 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

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

Example: HIGHLIGHT-SP-WPTS-C-150W-A-100W-4-40K-120AH-16FT-GR

Model	Solar Panel qty	Solar Panel	LED Head	Led Power	Distribution Type	LED Color Temp	Battery Capacity	Pole Height	Body Color
HIGHLIGHT SP-WPTS	A- 1 panel	85W	A B  	20W	5 – Type V	30K 40K 50K 60K Amber	20Ah 40Ah 60Ah 100Ah 120Ah 150Ah	XXFT	GR - Grey
	B- 2 panels	90W		30W					BLK- Black
	C- 3 Panels	100W		40W					*Other colors available upon request
	D - 4 Panels	150W		50W					
		180W		60W					
				70W					
				80W					
				90W					
				100W					

All system configurations are subject to site conditions, solar availability, and final engineering approval prior to manufacturing.



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