

HIGHLIGHT SP-WPTE

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 eliminates ongoing utility electricity costs.



RELIABLE NIGHTTIME OPERATION

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



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 structure.

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 long-term outdoor installations

High-Performance Luminaires

- LED power - up to 60W (up to 8,400 lm)
- Available in 3000K-6000K and Amber
- CRI ≥ 81



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 - Designed for neighborhood roads and local streets requiring reliable area illumination for local roadway environments. Supports autonomous operation without trenching or grid connection.

Parks & Public Spaces - Suitable for plazas, landscaped areas, community parks, and recreational zones. Vertical solar integration maintains clean architectural aesthetics.

Pedestrian Pathways & Walkways - Ideal for sidewalks, bike paths, and pedestrian corridors. Provides consistent dusk-to-dawn lighting in public environments.

Residential Communities & HOAs - Well-suited for gated communities, entry roads, and shared outdoor spaces where grid extension may be impractical or cost-prohibitive.

Remote or Grid-Limited Locations - Designed for autonomous operation in areas with limited electrical access. System performance depends on configuration and available solar resources.

Parking Lots - Designed for small to mid-size parking areas requiring autonomous off-grid lighting. System configuration should be selected based on photometric design and project requirements.

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 pole
- **Total solar power** - Up to 720W
- **Number of solar modules** - Up to 4 panels
- **Solar charge controller** - MPPT (Maximum Power Point Tracking), infrared solar charging controller
- **Battery type** - LiFePO₄ battery system
- **Battery capacity** - Up to 150Ah
- **LED power** - Up to 60W (up to 8,400 lm)
- **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 for off-grid and grid-limited environments.

- **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-WPTE-C-100W-60W-3-40K-100AH-14FT-GR

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

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



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