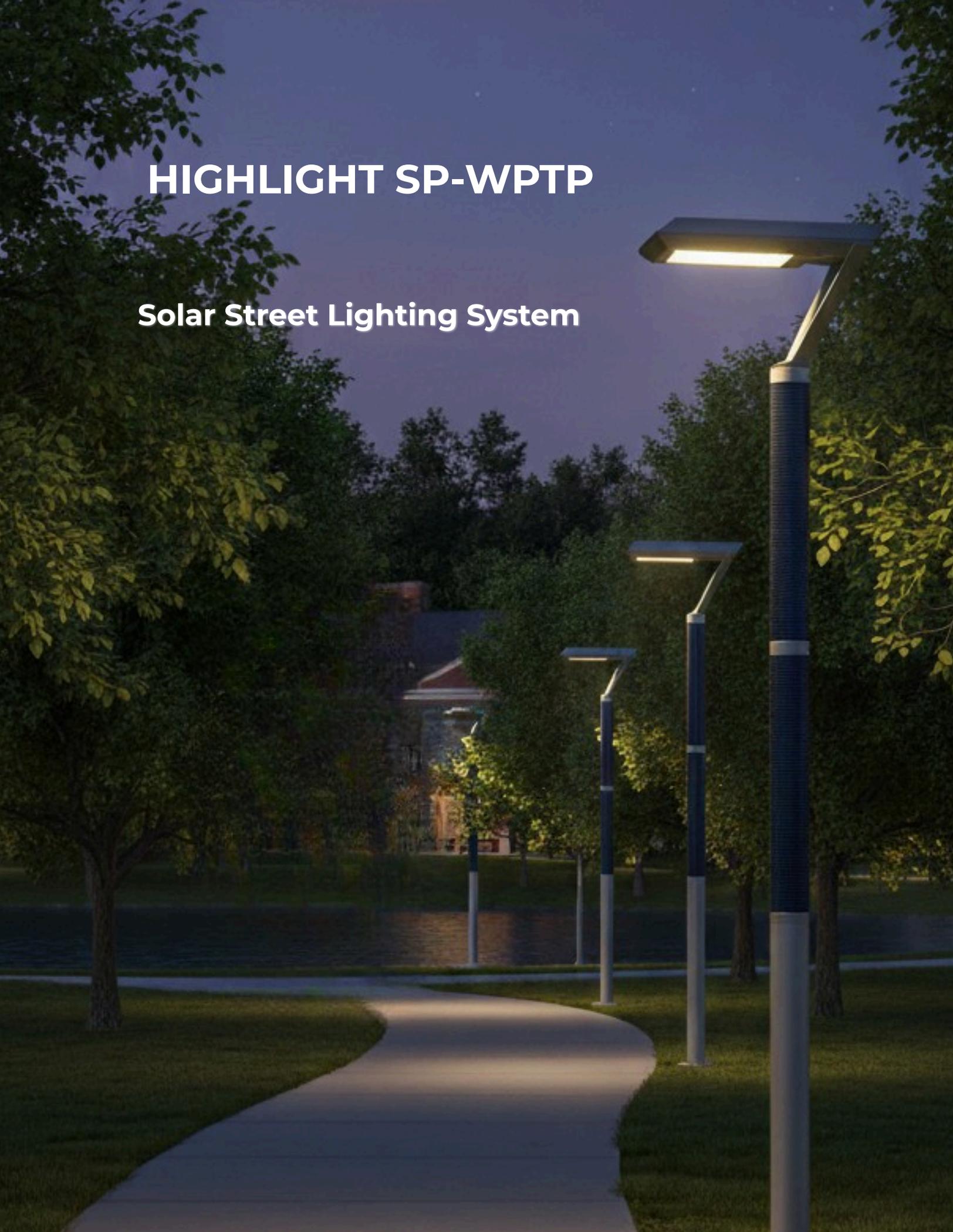


HIGHLIGHT SP-WPTP

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 higher-output lighting configurations up to 80W.



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 Luminaire

- LED power -up to 80W (up to 9,680 lm)
- Available in 3000K-6000K and Amber
- CRI ≥ 81
- Designed for enhanced area coverage and higher illumination requirements.



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 - Suitable for neighborhood roads and medium-width urban streets requiring higher illumination levels and enhanced coverage. Supports autonomous operation without trenching or grid connection.

Parks & Public Spaces - Ideal for plazas, landscaped areas, community parks, and larger open public environments requiring extended light coverage.

Pedestrian Pathways & Walkways - Provides consistent dusk-to-dawn lighting for pedestrian corridors and multi-use paths with higher illumination requirements.

Residential Communities & HOAs - Well-suited for gated communities, entry roads, and larger shared outdoor areas 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 configuration should be selected based on solar availability and photometric requirements.

Parking Lots - Designed for small to mid-size commercial and residential parking areas requiring higher output 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 charge controller
- **Battery type** - LiFePO₄ battery system
- **Battery capacity** - Up to 150Ah
- **LED power** - Up to 80W (up to 9,680 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-WPTP-C-150W-80W-4-40K-120AH-16FT-GR

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

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



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