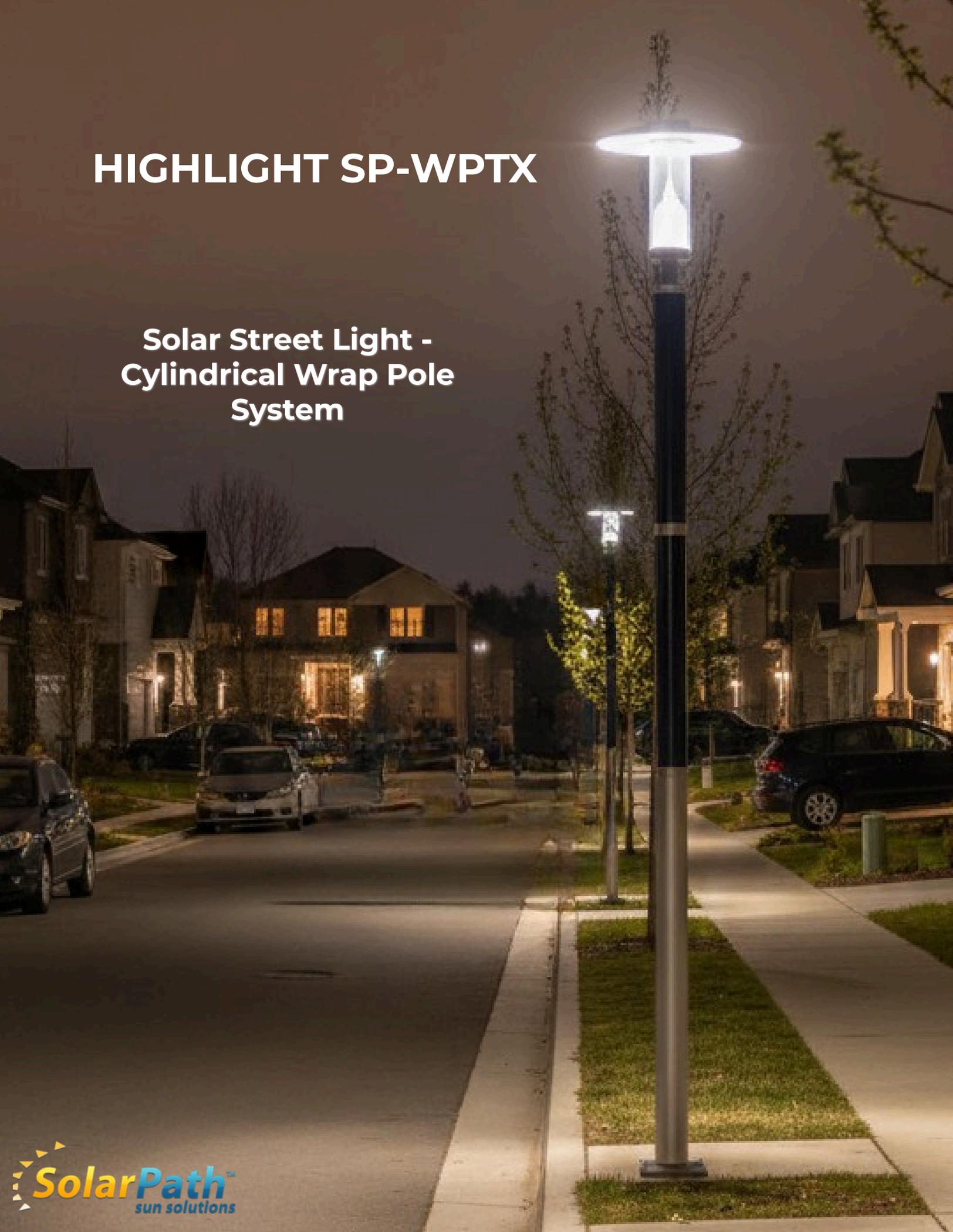


# HIGHLIGHT SP-WPTX

**Solar Street Light -  
Cylindrical Wrap Pole  
System**



# SYSTEM BENEFITS



## OFF-GRID COST EFFICIENCY

Fully autonomous solar street light system.

Eliminates trenching, underground cabling, and utility connection requirements.

Reduces installation time and total project cost.



## AUTONOMOUS NIGHTTIME OPERATION

Integrated lithium battery storage system.

Dusk-to-dawn operation profile (dependent on solar availability).

LED output up to 6,500 lumens.



## ENGINEERED SYSTEM DESIGN

MPPT solar charge controller

Manual / Automatic / Time control modes

Operating temperature: -31°F to 122°F

IP65 rated luminaire



## INTEGRATED SOLAR WRAP TECHNOLOGY

CIGS amorphous flexible solar modules wrapped directly around the pole structure.

Up to 720W total solar capacity.

Designed to support improved wind resistance and reduced shading losses.

# ADVANCED VERTICAL TECHNOLOGY

## Rugged Mounting Poles

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

## High-Performance Luminaire

- LED power – up to 50W (up to 6,500 lm)
- Available in 3000K-6000K and Amber
- CRI >81
- IP65 rated



## 360° Vertical Solar Wrap

- CIGS amorphous flexible solar panel wrap integrated directly onto the pole
- Up to 720W total solar capacity
- Cylindrical configuration for optimized solar exposure
- Designed for high wind load and improved shading tolerance

## Smart Power Control

- MPPT (Maximum Power Point Tracking) solar charge controller
- Lithium battery system – up to 150AH
- Manual / Automatic / Time control modes
- Dusk-to-dawn operation profile (depending on solar radiation)

# Warranty & Reliability

The HIGHLIGHT SP-WPTX system is engineered for reliable long-term outdoor operation.

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

<b>Component</b>	<b>Warranty Coverage</b>
Solar Modules	5-year workmanship warranty covering manufacturing defects. 10/25-year limited power output warranty covering performance degradation in accordance with manufacturer specifications.
Battery System (LiFePO4)	Warranty subject to battery manufacturer specifications. Service life dependent on application and operating conditions.
LED Luminaire, MPPT Controller & Smart Electronics	Manufacturer warranty - coverage period subject to component specifications.
Pole & Structural Components	Designed for outdoor installation environments. Project-specific structural engineering available upon request.

Warranty terms are subject to system configuration and manufacturer specifications. Full warranty details are available upon request.

# Applications & Use Cases

**Urban & Residential Streets** - Suitable for neighborhood roads and secondary streets requiring reliable off-grid area illumination.

**Commercial Parking Areas** - Designed for small to mid-size parking lots where trenching and grid extension are not feasible or cost-effective.

**Public Parks & Pathways** - Provides consistent dusk-to-dawn illumination for parks, pedestrian walkways, and community open spaces.

**Residential Developments & HOAs** - Well-suited for gated communities, entry roads, and shared outdoor areas seeking autonomous solar lighting.

**Recreational & Multi-Use Areas** - Effective for courts, open-use spaces, and community recreational zones requiring focused area lighting.

**Remote or Grid-Limited Locations** - Ideal for sites where electrical infrastructure is unavailable, limited, or economically 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** - Lithium battery system
- **Battery capacity** - Up to 150Ah
- **LED power** - Up to 50W (up to 6,500 lm)
- **Distribution type** - Type II / 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

The HIGHLIGHT SP-WPTX system is configurable based on site conditions, solar availability, and project lighting requirements.

- **DEFINE SITE CONDITIONS AND APPLICATION PARAMETERS**
- **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-WPTX-C-150W-40W-5-40K-120Ah-XXFT-GR-01**

Model	Solar Panel qty	Solar Panel	Led Power	Distribution Type	LED Color Temp	Battery Capacity	Pole Height	Body Color	Options
HIGHLIGHT SP-WPTX	A- 1 panel B- 2 panels C- 3 Panels D - 4 Panels	85W 90W 100W 150W 180W	20W 30W 40W 50W	2 – Type II 5 – Type V	30K 40K 50K 60K Amber	20Ah 40Ah 60Ah 100Ah 120Ah 150Ah	XXFT	GR - Grey BLK- Black *Other colors available upon request	00 – No Motion Sensor 01 – With Motion Sensor

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



# Contact Us

**Website**



[www.solarpathusa.com](http://www.solarpathusa.com)

**Phone**



201-490-4499

**E-mail**



[contact@solarpathusa.com](mailto:contact@solarpathusa.com)

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