

# Solar Powered LED Pole System

SP-SBPS

Dual-Height Architectural & Street-Grade Solar Lighting

# SYSTEM CONFIGURATION PLATFORM SP-SBPS

The SP-SBPS solar pole system is available in two height and performance configurations, designed to meet diverse architectural and street lighting requirements.



## LOW-PROFILE CONFIGURATION

Pole Height – 5FT or 6.5FT  
Solar Capacity - 60W to 80W  
LED Power- 10W / 15W / 20W  
Battery Capacity - Up to 25Ah  
Application – Pathways, Parks,  
Residential Roads



## FULL-HEIGHT CONFIGURATION

Pole Height - Up to 10FT  
Solar Capacity - 80W to 125W  
LED Power - Up to 20W (2,400 lm)  
Battery Capacity - Up to 25Ah  
Distribution - Type V roadway optic  
Application - Parking Lots, Streets,  
Roadways



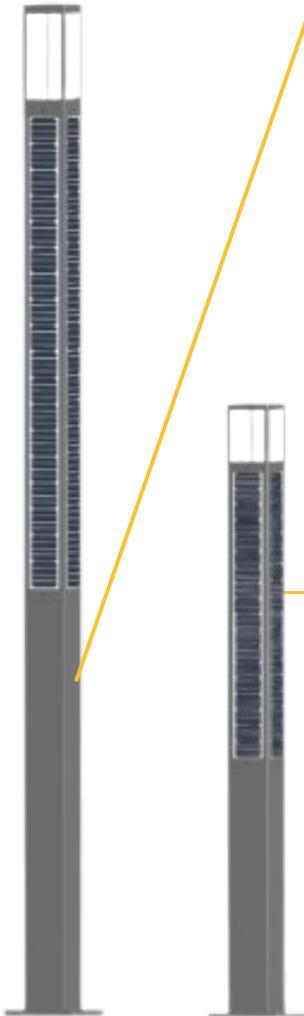
## SHARED CORE TECHNOLOGY

Mono solar panel technology  
MPPT (Maximum Power Point  
Tracking) controller  
Lithium (LiFePO<sub>4</sub>) battery system  
Programmable dusk-to-dawn  
operation  
IP65 rated  
Operating temperature – -4°F to  
140°F

# ADVANCED SOLAR STREET TECHNOLOGY

## Rugged Structural Pole Design

- Engineered for long-term outdoor installation
- Available in low-profile and full-height configurations
- Structural design optimized for pathway and street applications
- Pole height options - 5FT / 6.5FT / 10FT
- Powder-coated aluminum construction



## High-Efficiency LED System

- LED power – 10W / 15W / 20W
- Maximum luminous output – up to 2,400 lumens
- CCT options – 3000K to 6000K
- Type V roadway distribution
- IP65 rated luminaire

## Integrated Mono Solar Module

- High-efficiency mono solar panel
- Solar capacity - 60W to 125W (depending on configuration)
- Optimized panel angle for maximum sun exposure
- Designed for reliable year-round energy harvesting

## Smart Power Management

- MPPT (Maximum Power Point Tracking) controller
- Lithium (LiFePO<sub>4</sub>) battery system - up to 25Ah
- Programmable dusk-to-dawn operation
- Multiple control modes – Auto / Time / Manual
- Adaptive dimming based on solar input

# Warranty & Reliability

## SP-SBPS

The SP-SBPS solar pole system is engineered for reliable long-term outdoor performance in architectural and street lighting environments.

All primary system components are selected and tested to ensure durability, consistent operation, and compliance with applicable standards.

Component	Warranty Coverage
Solar Modules (Mono)	5-year workmanship warranty. Limited power output warranty per manufacturer specifications.
Battery System (LiFePO4)	Manufacturer warranty. Service life dependent on operating profile and environmental conditions.
LED Luminaire & Controller	Manufacturer warranty - coverage period subject to individual component specifications.
Structural Pole & Housing	Designed for outdoor structural performance. Project-specific engineering review available upon request.

Warranty terms may vary based on system configuration, installation environment, and operating profile.

Full warranty details available upon request.

# APPLICATIONS & USE CASES - SP-SBPS

The SP-SBPS platform is designed to support both low-profile and full-height configurations across architectural, commercial, and street lighting applications.

## Low-Profile Configuration Applications

Designed for pedestrian-scale and architectural environments requiring controlled light distribution and compact pole height.

- Residential Pathways & Private Roads
- Parks & Recreational Areas
- Campus Walkways
- Courtyard & Landscape Lighting
- HOA & Community Developments

## Full-Height Configuration Applications

Engineered for higher mounting applications requiring broader area coverage and roadway-grade distribution.

- Commercial Parking Lots
- Urban Streets & Secondary Roadways
- Municipal Infrastructure Projects
- Industrial Facilities
- Mixed-Use Developments

*This system is intended for area and roadway lighting applications based on selected configuration.*

*Not intended for high-mast or highway lighting applications unless specifically engineered.*

# Technical Overview - SP-SBPS

- **Solar module type** - High-efficiency mono solar panel
- **Total solar capacity** - 60W to 125W (depending on configuration)
- **Solar charge controller** - MPPT (Maximum Power Point Tracking) controller
- **Battery type** - Lithium (LiFePO4) battery system
- **Battery capacity options** - 15Ah / 20Ah / 25Ah
- **LED power options** - 10W / 15W / 20W
- **Maximum luminous output** - Up to 2,400 lumens
- **CCT options** - 3000K to 6000K
- **Distribution type** - Type V roadway optic
- **Control modes** - Auto / Time / Manual
- **Operation profile** - Programmable dusk-to-dawn with adaptive dimming
- **IP rating** - IP65
- **Pole height options** - 5FT / 6.5FT / 10FT
- **Operating temperature** - -4°F to 140°F

*Final system configuration may vary based on site conditions, solar exposure, and final engineering approval.*

# HOW TO SPECIFY & ORDER SP-SBPS



The SP-SBPS solar pole system is configurable based on project requirements, site solar availability, mounting height, and required lighting performance.

## SELECT CONFIGURATION TYPE

Choose pole height:

- Low-Profile Configuration - 5FT or 6.5FT
- Full-Height Configuration - 10FT

## DEFINE SOLAR AND POWER REQUIREMENTS

- Select solar capacity (60W to 125W)
- battery capacity (15Ah / 20Ah / 25Ah) based on required runtime and site solar exposure.

## SELECT LED OUTPUT AND DISTRIBUTION

- Choose LED power (10W / 15W / 20W) and CCT (3000K to 6000K).
- Type V roadway distribution included for area and street applications.

## SELECT CONTROL MODE

Choose operating profile:

- Auto (dusk-to-dawn)
- Time-based schedule
- Manual override
- Optional: Motion sensor (if applicable).

## CONFIRM FINAL CONFIGURATION

- Each approved configuration is assigned a unique SolarPath model code for production and ordering reference.

## LIGHTING DESIGN & PHOTOMETRIC SUPPORT

Photometric data and layout support available upon request to assist with pole spacing, light levels, and compliance review.

## IMPORTANT NOTES

- Final configuration subject to engineering review.
- System performance depends on solar exposure and operating profile.
- Specifications may vary by configuration.

# ORDERING GUIDE

Each approved SP-SBPS configuration is assigned a unique SolarPath model code for manufacturing and ordering reference.

## Example: SP-SBPS-60W-10W-V-30K-15AH-5FT-GR-00

Model	Solar Panel	Led Power	Distribution Type	LED Color Temp	Battery Capacity	Pole Height	Body Color	Options
SP-SBPS	60W 80W 100W 125W	10W 15W 20W	Type V	30K 40K 50K 60K	15Ah 20Ah 25Ah	5FT 6.5FT 10FT  Custom height available upon request.	GR-Grey	00- Without motion sensor 01- With motion sensor

*All configurations are subject to site conditions, solar exposure, and final engineering approval prior to production.*



# Contact Us

**Website**



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

**Phone**



201-490-4499

**E-mail**



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

---