



HIGHLIGHT HL - SPSHB

Fully autonomous, off-grid solar lighting system designed for pedestrian-scale and area lighting applications. No trenching. No wiring. No grid dependency.

POWERFUL BENEFITS: WHY BEAT THE GRID?



SAVES MONEY FROM DAY ONE

Eliminates trenching, wiring, and grid connection costs.

No utility bills. No infrastructure delays.



RELIABLE NIGHTTIME OPERATION

Fully off-grid solar lighting with intelligent MPPT energy management and optimized battery utilization.



NO SCHEDULED MAINTENANCE REQUIRED FOR 10+ YEARS

Advanced LiFePO4 battery technology and smart system design enable long-term, maintenance-free operation.



VERTICAL SOLAR INNOVATION OPTIONAL

360° vertical solar wrap maximizes energy capture with clean architectural design.

No exposed panels. Minimal visual impact.

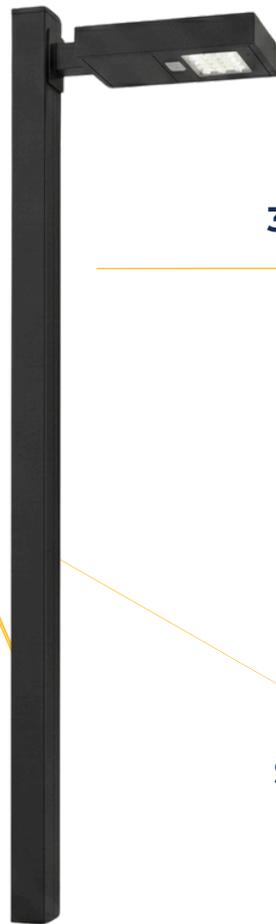
ADVANCED VERTICAL TECHNOLOGY

Rugged Mounting Poles

- Wind-load certified to meet local codes
- Flexible installation: direct burial or anchor base

High-Performance Luminaires

- Dark-sky compliant optics
- High efficiency LED technology



360° Vertical Solar Wrap (Optional)

- Hydrophobic self-cleaning coating reduces dust and dirt buildup.

SmartLight Power Center

- Proprietary MPPT control architecture optimized for vertical solar systems
- Application-specific logic for fully off-grid operation
- LiFePO₄ battery chemistry with long service life
- Designed for reliable performance in demanding environments

Warranty & Reliability

SolarPath solar lighting systems are engineered for autonomous, long-term operation in demanding environments.

All system components are selected and tested to ensure reliability, durability, and consistent performance over time.

Component	Warranty Coverage
Solar Modules	Performance warranty up to 10 years
Battery System (LiFePO4)	Expected service life up to 10 years
LED Luminaire, MPPT Controller & Smart Electronics	Manufacturer warranty
Pole & Structural Components	Designed to meet local wind-load requirements

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

Applications & Use Cases

Parks & Public Open Spaces - Provides uniform, glare-controlled illumination for parks and green areas while preserving aesthetics. Fully off-grid operation eliminates trenching and reduces long-term maintenance costs.

Pedestrian Pathways & Walkways - Ensures safe and consistent lighting for sidewalks, trails, and walking paths. Ideal for locations where grid connection is impractical or disruptive.

Residential Communities (HOA / BTR Developments) - Supports internal pathways, shared outdoor spaces, and neighborhood amenities. Delivers reliable lighting with minimal visual impact and no utility dependency.

Campuses, Plazas & Shared Outdoor Spaces - Designed for large pedestrian areas requiring uniform area lighting. Integrates seamlessly into landscaped environments with autonomous operation.

Recreational & Gathering Areas - Enhances visibility and safety in courtyards, seating zones, and activity areas. Maintains a clean architectural appearance while operating fully off-grid.

Off-Grid & Remote Locations - Engineered for autonomous solar operation where utility power is unavailable. Eliminates infrastructure costs while providing dependable nighttime lighting.

Lighting levels, pole height, and system configuration are customized based on project requirements and site conditions.

Technical Overview

System-level specifications for reference. Final configuration may vary by project.

Solar Configuration – Vertical monocrystalline solar panels integrated into the pole

Total Solar Power – Up to 65W (configuration dependent)

Battery Type – LiFePO₄

Battery Capacity – Up to 50Ah, scalable based on project needs

LED Luminaire – High-efficiency LED, up to 30W

Luminous Efficiency – Up to 150 lm/W

CCT Options – 3000K / 4000K / 6000K / Amber

Distribution – Type II, III, IV, V

IP Rating – IP68

Charge Controller – MPPT optimized for solar-only systems

Control Modes – Dusk-to-dawn / time-based programmable profiles

Operating Temperature – 40°F to +140°F

System Lifetime – Solar modules designed for 20+ years

Product Overview



Configuration Overview

System parameters are configured based on project and site requirements.

CONFIGURABLE PARAMETERS

Lighting & Optics

- LED luminaire type and wattage
- Optical distribution (Type III standard, others upon request)
- CCT options: 3000K / 4000K / 6000K / Amber

Solar & Power System

- Vertical solar module configuration
- Total solar capacity based on site conditions
- MPPT charge controller optimized for solar-only systems

Battery & Control

- LiFePO4 battery type and capacity
- System autonomy defined per project
- Dusk-to-dawn and programmable profiles

HOW TO SPECIFY & ORDER

- 1. Define site and application requirements**
- 2. Establish lighting and operating profile**
- 3. Configure system components**
- 4. Approve final configuration and assign part number**

Each approved configuration is assigned a unique SolarPath configuration code

LIGHTING DESIGN & PHOTOMETRIC SUPPORT

Lighting design and photometric layouts available upon request.

IMPORTANT NOTES

- System performance depends on site conditions and solar availability
- Specifications shown are representative and may vary by configuration
- All configurations are reviewed and approved prior to manufacturing

ORDERING GUIDE

EXAMPLE: HL-SPSHB-35W-20W-2-30K-30AH-BLK-00

Model	Solar Panel	Led Power	Distribution type	LED Color Temp	Battery Options	Body Color	Options
HS-SPSHB	35W 65W	20W 30W	2 - Type II 3 - Type III 4 - Type IV 5 - Type V	30K 40K 50K 60K	30AH 40AH	BLK-Black GR- Grey BRZ- Bronze C - Custom	00 - No motion sensor 01- Motion sensor BS - Back Shield VL - Blue Light



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