

HIGHLIGHT SP-SWBL Specifications



Why us?

Innovative Technology

High-efficiency solar and advanced LEDs deliver superior performance, long life, and maximum ROI.

Photometric

We conduct photometric measurements on all our products to ensure optimal performance and compliance with industry standards

Versatile Lighting

We design and install solar-powered lighting systems tailored for all kinds of locations such as streets, parks, pathways, homes, etc.

Global Reach

Worldwide success proves our adaptability and regulatory expertise.

Sustainable Savings

These solutions enhance safety, promote sustainability and provide significant energy and cost savings.

Warranty

SolarPath is dedicated to delivering architectural and commercial-grade solar lighting that can be customized to meet specific client requests, both in technical specifications and aesthetic design, ensuring a perfect fit for a diverse range of needs.



The SOLARPATH HIGHLIGHT SP-SWBL™ is the most advanced and sophisticated solar light pole available on the market. The solar light pole is completely off-grid and works autonomously, using sustainable solar power. This means there is no need for expensive cabling and invasive trenching, which results in fast installation, easy operation and a low total cost of ownership. Solar energy generated during the day is stored in high-quality lithium batteries, which are long-lasting and require minimum maintenance. The highly efficient LED-luminaire provides powerful lighting at night.

Technical specification

Solar Module Parameters	Type	CIGS Amorphous flexible solar panel wrap on pole
	Power	Up to 900W
	Amount of solar modules	Up to 5 pcs
Solar Charge Controller	MPPT (Maximum Power Point Tracking), infrared solar charging controller	
Battery	LifePO	12.8V or 25.6V/ Up to 150AH
LED Light Parameters	Light Source Power	Up to 90W (Up to 11,520 lm)
	CCT (Correlated color temperature)	3,000K-6,000K
	CRI (Color rendering index)	<u>≥70</u>
Control Modes	Manual ON/OFF / Automatically ON/OFF / Time Control	
Operation profile	Dusk to dawn(Depend to solar radiation)	
IP Rating	IP65	
Operation Temperature	26°F~131°F	
Pole Height	Customized per to customer requirement	
Product Size	Light Body	Depend On LED power
	Solar Panel	Depend On Solar Panel wattage
Net Weight	Light Body	Depend On LED power
	Solar Panel	Depend On Solar Panel wattage

FLEX SERIES -1.7N

CIGS Flexible Modules:
High Power Density in a Flexible Form Factor

Solar cylindrical wrap pole panel data sheet

Key Features

- Record efficiency level in a CIGS flexible form factor.
- Low installed weight at less than 2.9 kg/m^2 ($<0.6 \text{ lb/ft}^2$)
- No penetration, ballast or racking required.
- Applicable for high wind load and high shading losses.
- Bypass diodes reduce PV system shading losses.
- Directly bonds to many approved surfaces.

Reliability and safety

- IEC 61646, IEC 61730-1 & -2, IEC 61701, IEC 62716, DEWA.
- UL 1703, ULC ORD C 1703, UL 2703.
- 5 years workmanship.
- 10/25 years warranty against power loss.



FLEX SERIES

SP-FWSP- CIGS MODULE SERIES

Electrical performance AT STC¹

Nominal Power P _{MPP}	(W)	85	90	100	150	180
Power Output Tolerance	(W)	+5/-0	+5/-0	+5/-0	+5/-0	+5/-0
Maximum Power Voltage V _{MPP}	(V)	18.44	24.84	18.2	18.8	22.23
Maximum Power Current I _{MPP}	(A)	4.72	3.71	5.49	7.96	8.08
Open Circuit Current V _{OC}	(V)	22.7	30.64	22.47	22.5	26.5
Short Circuit Current I _{SC}	(A)	5.28	4.19	5.93	8.38	8.38
Maximum Series Fuse Rating	(A)	10			15	
Maximum System Voltage (IEC/UL)	(V)	1000/600				

¹Standard Test Conditions (STC): 1000 W/m², 77°F cell temperature, AM 15 spectrum.

Thermal Characteristics

NOCT	(°F)	118.4
Temperature Coefficient P _{MPP}	(%/°F)	32.68
Temperature Coefficient V _{OC}	(%/°F)	32.50
Temperature Coefficient I _{SC}	(%/°F)	32.01

Physical and Mechanical Specifications

Length	78.74"	59.05"	59.05"	59.05"	68.89"
Outside Diameter	4.72"	5.51"	6.29"	8.62"	8.62"
Inside Pole Diameter	No need	No need	<4.25"	<4.49"	<4.49"
Thickness with mold	0.09"	0.09"	0.09"	0.17"	0.17"
Weight with aluminum mold	22.66lbs	18.62lbs	20.83lbs	31.96lbs	37.36lbs
Junction Box Type	IP68				
Cell Type	Copper Indium Gallium Di selenide (CIGS)				
Certifications	UL 1703, ULC ORD C1703, UL 2703, IEC 61646, IEC 61730-1 & -2, IEC 61701, IEC 62716, DEWA				





SOLAR STREET LIGHT

USES AND APPLICATIONS GUIDE

Streets Lighting	V
Parking Lots	V
Residential Roads	V
Public Parks	V
Sports Lighting	V

ORDERING GUIDE

Ordering Guide: EXAMPLE: HIGHLIGHT SP-SWBL-A-85W-A-20W-2-30K-20AH-XX-GR-BLK

Model	Solar panel qty.	Solar panel	LED Head	LED Power	Distribution Type	Color Temp.	Battery capacity	Pole height	Body color	
SP-SWBL	A – 1 panel	85W	A - 	20W	2 – Type II	30K	20AH	XX FT	BLK-Black	
	B – 2 panels	90W		30W	3 – Type III	40K	40AH		GR-Grey	
	C – 3 panels	100W		40W	4 – Type IV	50K	60AH		*other colors available upon request	
	D – 4 panels	150W		50W	B - 	5 – Type V	60K			100AH
		180W		60W		Amber	120AH			
		70W	150AH							
		80W								
	90W									

***Can customized per to customer requirement**

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