

SWPLB 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 SWPLB with solar wrap panel LED light is an architectural independent lighting solution ideally for various applications such as parks, pathways, bike lanes, remote areas, golf courses, beach resorts, marinas, residential areas and landscape lighting projects.

The architectural patented design in combination with a robust high LED lighting output in a high-grade construction makes it your ideal choice for all your self-contained lighting projects.

SWPLB works completely without wiring and gets its power from the sun, using a special energy storage system, which requires no replacement of batteries for several years.

Energy storage and usage is controlled by a unique built-in self-decisive software algorithm. Cloudy days or shaded areas, the intelligent energy saving SWPLB always provides perfect lighting conditions.

Technical specification

Solar Module Parameters	Type	CIGS Amorphous flexible solar panel wrap on pole
	Power	Up to 80W
Solar Charge Controller	MPPT (Maximum Power Point Tracking), infrared solar charging controller	
Battery	LifePO	Up to 40AH
LED Light Parameters	Light Source Power	Up to 20W
	Brightness	3,000LM
	CCT (Correlated color temp.)	3,000K-6,000K
Operation profile	Programmable, Dusk to Dawn (dim per to solar radiation)	
IP Rating	IP65	
Operation Temperature	-4ℱ~140ℱ	
Pole Height	Up to 6.5’FT	
Body material	Stainless steel/ Aluminum pole	
*Depend on quantity		



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				

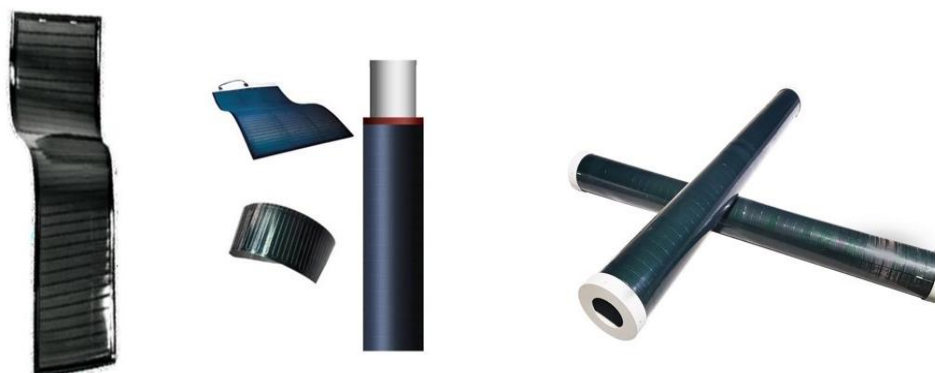
¹Standard Test Conditions (STC): 1000 W/m², 77°F cell temperature, AM 15 spectrum.

Thermal Characteristics

NOCT	(°F)	118.4
Temperature Coefficient P _{MPP}	(%/°F)	32.68
Temperature Coefficient Voc	(%/°F)	32.50
Temperature Coefficient Isc	(%/°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

Pathways

Bike Path

Public parks

Gardens

Landscaaping

ORDERING GUIDE

Ordering Guide: EXAMPLE: SWPLB-50W-10W-30K-20AH-4.9FT-BLK-AB-00

Model	Solar panel	LED Power	Color Temp.	Battery capacity	Pole height	Body color	Installation option	Options
SWPLB	50W	10W	30K	20AH	4.9 FT	BLK- Black	AB- Anchor bolts	00- Motion Sensor
	80W	15W	40K	30AH	6.5FT	*other colors available upon request		01- Without motion sensor
		20W	60K	40AH				

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Contact us



+1.201.490.4499

Toll free: 1.888.333.SOLAR (7652)



contact@solarpathusa.com



www.solarpathusa.com