SWPLB Specifications





Whyus?

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 Lightning

We designs and install solar-powered lightning systems tailored for all kind 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 providing significant energy and cost saving.

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	Туре	CIGS Amorphous flexible solar panel wrap on pole		
Parameters Parameters	Power	Up to 80W		
Solar Charge Controller	MPPT (Maximum Power Point Tracl	king), 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

-4°F~140°F

Temperature

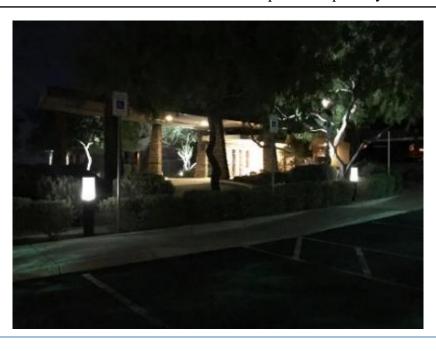
Pole Height

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/m² (<0.6lb/ft²)
- 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 PMPP	(W)	85	90	100	150	180
Power Output Tolerance	(W)	+5/-0	+5/-0	+5/-0	+5/-0	+5/-0
Maximum Power Voltage VMPP	(V)	18.44	24.84	18.2	18.8	22.23
Maximum Power Current IMPP	(A)	4.72	3.71	5.49	7.96	8.08
Open Circuit Current VOC	(V)	22.7	30.64	22.47	22.5	26.5
Short Circuit Current ISC	(A)	5.28 4.19 5.93			8.38	8.38
Maximum Series Fuse Rating	(A)	10 15				5
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 PMPP	(%/°F)	32.68
Temperature Coefficient VOC	(%/°F)	32.50
Temperature Coefficient ISC	(%/°F)	32.01

Physical and Mechanical Specifications

Length	6.56'	4.92'	4.92'	4.92'	5.74'	
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	LED	Color	Battery	Pole	Body color	Installation option	Options
	panel	Power	Temp.	capacity	height			
SWPLB	50W	10W	30K	20AH	4.9 FT	BLK- Black	AB- Anchor bolts	00- Motion Sensor
	80W	15W	40K	30AH	6.5FT	*other colors		01- Without motion sensor
		20W	60K	40AH		available upon request		



*Up on request

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