SWPDL 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 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.

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.

Solarpath's solar powered LED bollard is an architectural independent lighting solution ideal 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 combined with a robust high LED lighting output in a high-grade construction makes it your ideal choice for all your self-contained lighting projects.

This solar powered outdoor lamp operates completely wirelessly, eliminating the need to dig across the property to install an electrical grid.

Energy storage and usage are controlled by a unique built-in self-decisive software algorithm. The curved vertically integrated solar panel is wind-resistant and self-cleaning, as dirt and dust cannot stick to the design.

Solar energy generated during the day is stored in high-quality lithium batteries, which are long-lasting and require minimum maintenance.

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 20AH
LED Light Parameters	Light Source Power	Up to 20W
	Brightness	3,000LM
	CCT (Correlated color temp.)	3,000K/4,000K
Operation profile	Dusk to Dawn (dim per to solar radiation)	
IP Rating	IP65	
Operation Temperature	-4°F~140°F	
Pole Height	Up to 9.8FT	

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 STC[1]

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				

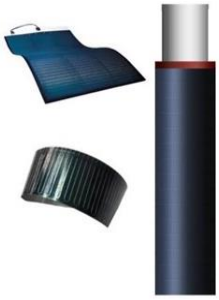
[1]Standard Test Conditions (STC): 1000 W/m², 77°F cell temperature, AM 15 spectrum.

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 name pole
Parking Lots
Residential Roads
Public Parks
Sports Lighting

ORDERING GUIDE

Ordering Guide: EXAMPLE: SWPDL-80W-20W-30K-20AH-SLV-UN

Model	Solar panel	LED Power	Color Temperature	Battery capacity	Pole height	Body color	LED Location
SWPDL	80W	20W	30K 40K	20AH 30AH	9.8 FT	**SLV**-Silver **GR**-Grey *other colors available upon request	**UN**- Solar panel under LED module **OV**- Solar panel over LED module

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