HIGHLIGHT SP-DSBL

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

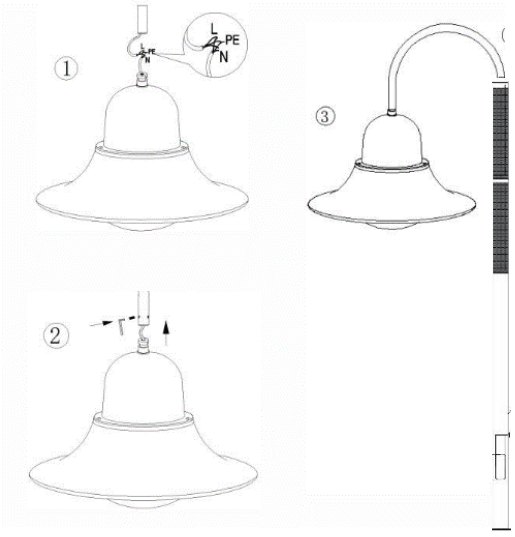
SolarPath is dedicated to delivering architectural and commercial-grade solar lighting that can be customized to meet specific client requests, both in technical specifications and aesthetic design, ensuring a perfect fit for a diverse range of needs.

HIGHLIGHT SP-DSBL

The SolarPath HIGHLIGHT SP-DSBL ™ 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. The curved vertically integrated solar panels are wind-resistant and self-cleaning, as dirt and dust cannot stick on the design. 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 540W
	Amount of solar modules	Up to 3 pcs
Solar Charge Controller	MPPT (Maximum Power Point Tracking), infrared solar charging controller	
Battery	LifePO	Up to 150AH
LED Light Parameters	Light Source Power	Up to 60W (Up to 7,404 lm)
	CCT (Correlated color temperature)	3,000K/6,500K
	CRI (Color rendering index)	≥81
Control Modes	Manual ON/OFF / Automatically ON/OFF / Time Control	
Operation profile	Programmable (Depend on solar radiation)	
IP Rating	IP66	
Operation Temperature	26°F~113°F	
Pole Height	Up to 25FT	



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				

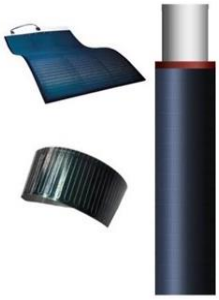
[1]Standard Test Conditions (STC): 1000 W/m², 77°F cell temperature, AM 15 spectrum.

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

ORDERING GUIDE

Ordering Guide: EXAMPLE: SP-DSBL-A-85W-20W-2-30K-60AH-16FT-BLK-00

Model	Solar Panel Quantity	Solar Panel	Led Power	Distribution Type	Led Color Temp	Battery capacity	Pole Height	Body Color	Options
SP-DSBL	A - 1 panel	85W	20W	2 – Type II	30K	60AH	16FT	BLK- Black	00 – No motion sensor
	B - 2 panels	90W	30W	5 – Type V	60K	100AH	20FT	*Other colors available	01 – With motion sensor
	C – 3 panels	100W	40W			120AH	25FT		
		150W	50W			150AH			
		180W	60W						

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