

SP-SEP 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 SP-SEP™ is the most advanced and sophisticated solar engine pole that supplies power that is 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. This 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 requires minimum maintenance. A solar engine pole provides low voltage and you can connect devices such as solar security cameras, LED lighting, mobile devices charging, bike charging and much more.

Technical specification

Solar Module Parameters	Type	CIGS Amorphous flexible solar panel wrap on pole
	Power	Up to 720W
	Amount of solar modules	Up to 4 pcs
Solar Charge Controller	MPPT (Maximum Power Point Tracking), infrared solar charging controller	
Battery	LifePO	Up to 150AH
IP Rating	IP65	
Operation Temperature	-4 ^o F~131 ^o F	
Pole Height	Customized per to customer requirement	



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 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 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	
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

Security Camera

Streets Lighting

Parking Lots

Residential Roads

Public Parks

Sports Lighting

ORDERING GUIDE

Ordering Guide: EXAMPLE: SP-SEP-A-85W-30AH-10FT-GR-SC

Model	Solar panel qty.	Solar panel	Battery capacity	Pole height	Body color	Options
SP-SEP	A – 1 panel	85W	30AH	10 FT	BLK-Black	SC- Security Camera
	B – 2 panels	90W	40AH	13FT	GR-Grey	
	C – 3 panels	100W	50AH	16FT	*other colors available upon request	
	D – 4 panels	150W	60AH	20FT		
		180W	80AH	23FT		
		100AH	26FT			
		120AH	29FT			
		150AH	32FT			

*Final part number will provide by the manufacturer.

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