

HIGHLIGHT SP-NTGL 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

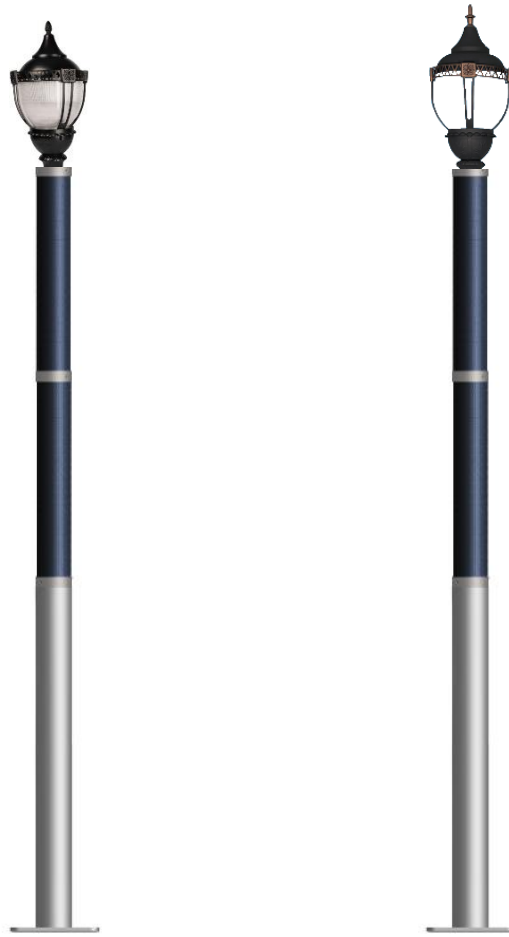
Worldwide success proves our adaptability and regulatory expertise.

Sustainable Savings

These solutions enhance safety, promote sustainability and provide significant energy and cost savings.

Warranty

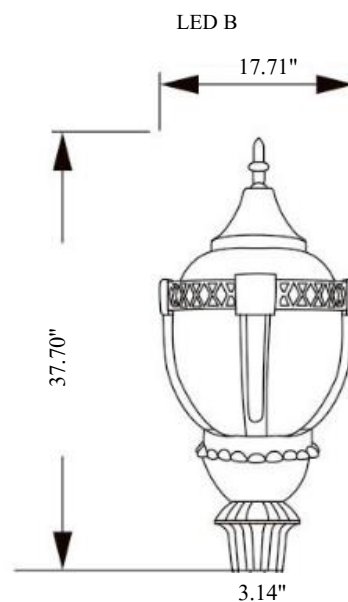
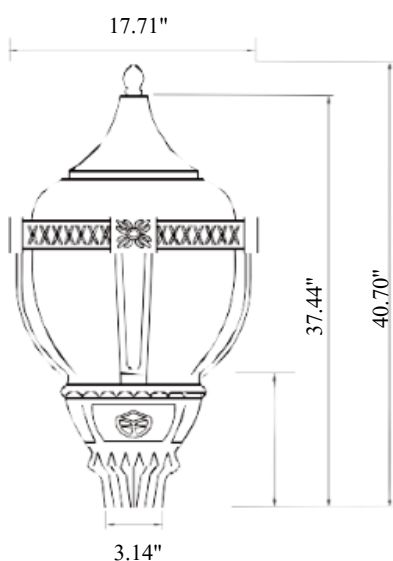
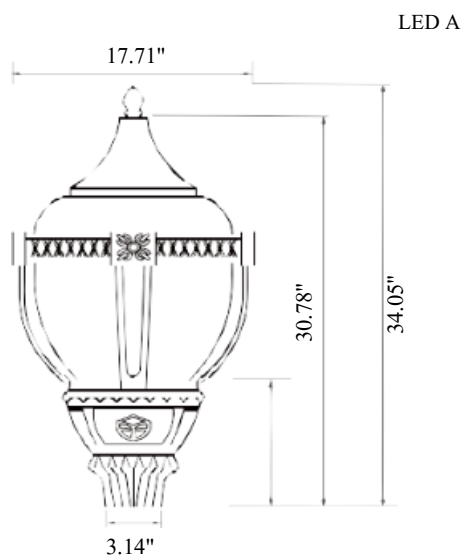
SolarPath is dedicated to delivering architectural and commercial-grade solar lighting that can be customized to meet specific client requests, both in technical specifications and aesthetic design, ensuring a perfect fit for a diverse range of needs.



The SOLARPATH HIGHLIGHT SP-NTGL™ 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. 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 900W
	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
LED Light Parameters	Light Source Power	Up to 100W (Up to 12,000 lm)
	CCT (Correlated color temperature)	3,000K-6,000K/Amber
	CRI (Color rendering index)	<u>≥70</u>
Control Modes	Manual ON/OFF / Automatically ON/OFF / Time Control	
Operation profile	Dusk to dawn (Depend to solar radiation)	
IP Rating	IP65	
Operation Temperature	26°F~131°F	
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/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				

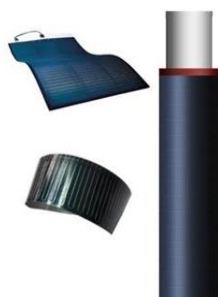
¹Standard Test Conditions (STC): 1000 W/m², 77°F cell temperature, AM 1.5 spectrum.

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: HIGHLIGHT SP-NTGL-A-85W-A-30W-3-30K-20AH-XXFT-BLK

Model	Solar panel qty.	Solar panel	LED Head	LED Power	Distribution Type	Color Temp.	Battery capacity	Pole height	Body color
SP-NTGL	A – 1 panel	85W	A - 	30W	3 – Type III	30K	20AH	XX FT	BLK-Black
	B – 2 panels	90W		50W	4 – Type IV	40K	40AH		*other colors available upon request
	C – 3 panels	100W		60W	5 – Type V	50K	60AH		
	D – 4 panels	150W	B - 	80W		60K	100AH		
		180W		100W		Amber	120AH		
							150AH		

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