

# HIGHLIGHT SP-WPTC 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**

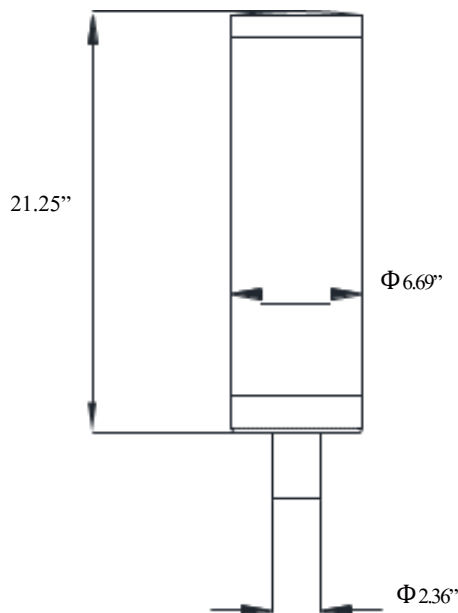
SolarPath is dedicated to delivering architectural and commercial-grade solar lighting that can be customized to meet specific client requests, both in technical specifications and aesthetic design, ensuring a perfect fit for a diverse range of needs.



The SOLARPATH HIGHLIGHT SP-WPTC 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 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                                      |
| LED Light Parameters    | Light Source Power                                                      | Up to 50W (Up to 6,500 lm)                       |
|                         | CCT (Correlated color temperature)                                      | 3,000K-6,000K/Amber                              |
|                         | CRI (Color rendering index)                                             | <u>≥81</u>                                       |
| Control Modes           | Manual ON/OFF / Automatically ON/OFF / Time Control                     |                                                  |
| Operation profile       | Dusk to dawn (Depend on solar radiation)                                |                                                  |
| IP Rating               | IP65                                                                    |                                                  |
| Operation Temperature   | -31°F~122°F                                                             |                                                  |



# 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  $2.9 \text{ kg/m}^2$  ( $<0.6 \text{ lb/ft}^2$ )
- 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 STC<sup>1</sup>

|                                        |     |          |       |       |       |       |
|----------------------------------------|-----|----------|-------|-------|-------|-------|
| Nominal Power P <sub>MPP</sub>         | (W) | 85       | 90    | 100   | 150   | 180   |
| Power Output Tolerance                 | (W) | +5/-0    | +5/-0 | +5/-0 | +5/-0 | +5/-0 |
| Maximum Power Voltage V <sub>MPP</sub> | (V) | 18.44    | 24.84 | 18.2  | 18.8  | 22.23 |
| Maximum Power Current I <sub>MPP</sub> | (A) | 4.72     | 3.71  | 5.49  | 7.96  | 8.08  |
| Open Circuit Current V <sub>OC</sub>   | (V) | 22.7     | 30.64 | 22.47 | 22.5  | 26.5  |
| Short Circuit Current I <sub>SC</sub>  | (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 |       |       |       |       |

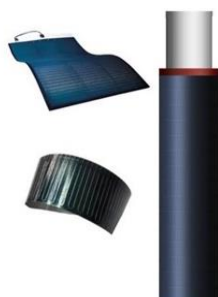
<sup>1</sup>Standard Test Conditions (STC): 1000 W/m<sup>2</sup>, 77°F cell temperature, AM 1.5 spectrum.

#### Thermal Characteristics

|                                          |        |       |
|------------------------------------------|--------|-------|
| NOCT                                     | (°F)   | 118.4 |
| Temperature Coefficient P <sub>MPP</sub> | (%/°F) | 32.68 |
| Temperature Coefficient V <sub>OC</sub>  | (%/°F) | 32.50 |
| Temperature Coefficient I <sub>SC</sub>  | (%/°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

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### 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-WPTC-A-85W-30W-3-30K-20AH-XXFT-GR

| Model     | Solar Panel Quantity | Solar Panel | Led Power | Distribution Type | Led Color Temp | Battery capacity | Pole Height | Body Color                           |
|-----------|----------------------|-------------|-----------|-------------------|----------------|------------------|-------------|--------------------------------------|
| HIGHLIGHT | A - 1 panel          | 85W         | 30W       | 3 – Type III      | 30K            | 20AH             | XXFT        | GR- Grey                             |
| SP-WPTC   | B - 2 panels         | 90W         | 40W       | 5 – Type V        | 40K            | 40AH             |             | BLK- Black                           |
|           | C – 3 Panels         | 100W        | 50W       |                   | 50K            | 60AH             |             | *Other colors available upon request |
|           | D – 4 Panels         | 150W        |           |                   | 60K            | 100AH            |             |                                      |
|           |                      | 180W        |           |                   | Amber          | 120AH            |             |                                      |
|           |                      |             |           |                   |                | 150AH            |             |                                      |

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