



SoloPanel® SP3L is an innovative photovoltaic module based upon Copper, Indium, Gallium, Selenium (“CIGS”) semiconductor material electro-deposited on a flexible stainless steel substrate and encapsulated in a state-of-the-art moisture barrier laminate. It is designed for a wide range of applications.

## SoloPanel® Model

# SP3L

### LOW INSTALLED SYSTEM COST

The flexible, lightweight form factor of the SP3L enables rapid and easy installation as well as low cost system integration with a wide variety of mounting solutions. The SP3L module is optimized for commercial and industrial building integration.

### HIGH ENERGY PERFORMANCE

SoloPower® is the market leader in high efficiency flexible modules. Modules are designed for superior performance under all light conditions, including low sun angle, providing excellent energy yield throughout the year.

### PROVEN DURABILITY

SoloPower® modules are built to meet or exceed UL 1703, IEC 61646 & IEC 61730 standards. Cells and modules are continually subjected to rigorous environmental and accelerated life cycle testing beyond industry standards.

### Innovated Integration

SoloPower Systems Inc. is a US based manufacturer of high-efficiency thin-film photovoltaic modules based on Copper Indium Gallium di Selenide (CIGS). The unique manufacturing process utilizes a low cost, proprietary electro-deposition tool set. The company is headquartered in Portland, Oregon.



#### KEY FEATURES

- + One hundred eighty (180) series connected, high efficiency, CIGS solar cells optimize panel performance
- + Low weight, non-penetrating mounting solutions take advantage of the lightweight module characteristics
- + Superior low-sun angle and low light performance provide excellent energy yield
- + Low profile bypass diodes allow for maximum performance under shade conditions
- + Weather resistant front sheet, sealed junction box and protective back sheet provide a long life, reliable and durable package
- + Modules are built to meet and/or exceed UL standard 1703, IEC 61646 & IEC 61730 standards
- + Manufactured in a highly automated state-of-the-art facility
- + 5-year limited warranty against defective materials and workmanship
- + 25-year warranty on power output
- + Designed and manufactured in the USA
- + For a complete listing of SoloPower products visit: [www.solopower.com](http://www.solopower.com)



**APPLICATIONS**

Segments: Commercial, Industrial Rooftop & Utility

**ELECTRICAL CHARACTERISTICS (STC)<sup>1</sup>**

Solopower SP3L		220	240	260	280	300
Rated Power (Pmax) <sup>2</sup>	W	220	240	260	280	300
Voltage at Pmax (Vmp)	V	65.1	68.2	70.8	77.1	83.6
Current at Pmax (Imp)	A	3.4	3.5	3.7	3.6	3.6
Short-circuit current (Isc)	A	4.4	4.3	4.4	4.2	4.2
Open-circuit Voltage (Voc)	V	91.8	95.4	97.2	102.6	108.0
Efficiency <sup>3</sup>	%	9.5	10.4	11.2	12.1	13.0

1. STC standard test conditions: 1000W/m<sup>2</sup> intensity, Air Mass 1.5, 25°C cell temperature. The power tolerance is -3% / +5% Wp, at STC. The electrical characteristics are within ± 10% unless otherwise specified.
2. Stabilized Power.
3. Aperture Efficiency.

**Solopower SP3L**

Temp. Co-efficient of Isc	%/°C	-0.03	Pmp	-0.48	%/°C
Temp. Co-efficient of Voc	%/°C	-0.36			
Max. Series Fuse Rating	A	7			

**Maximum DC Voltage**

US	VDC	600
EU	VDC	1,000
NOCT	°C	48

**PHYSICAL CHARACTERISTICS**

**Solopower SP3L**

Length	86.5 in / 2.197 m
Width	45.1 in / 1.146 m
Thickness	0.1 in / 2.0 mm
Weight	13.2 lbs / 6.1 kg
Roof Load From Module	0.49 lbs/ft <sup>2</sup> / 2.4 kg/m <sup>2</sup>

**QUALIFICATIONS**

Certified to Standards: UL 1703, IEC 61646, & IEC 61730.



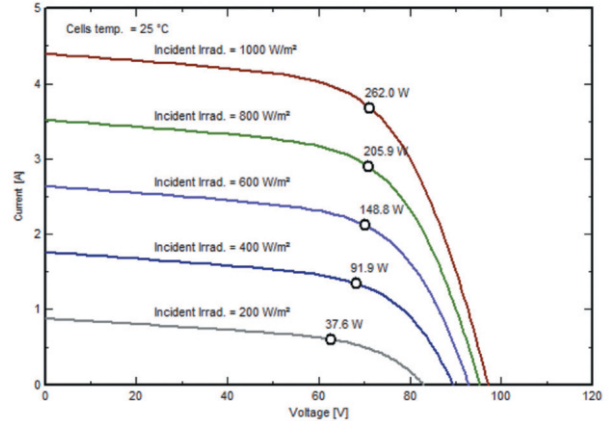
**WARRANTY**

Limited Warranty  
Materials and workmanship: 5 years  
Power output: 25 years (90% of nominal rated power for years 1 to 10, 80% of nominal rated power for years 11 to 25). Designed and manufactured in the USA.

Contact sales@solopower.com for complete terms of the limited warranty.

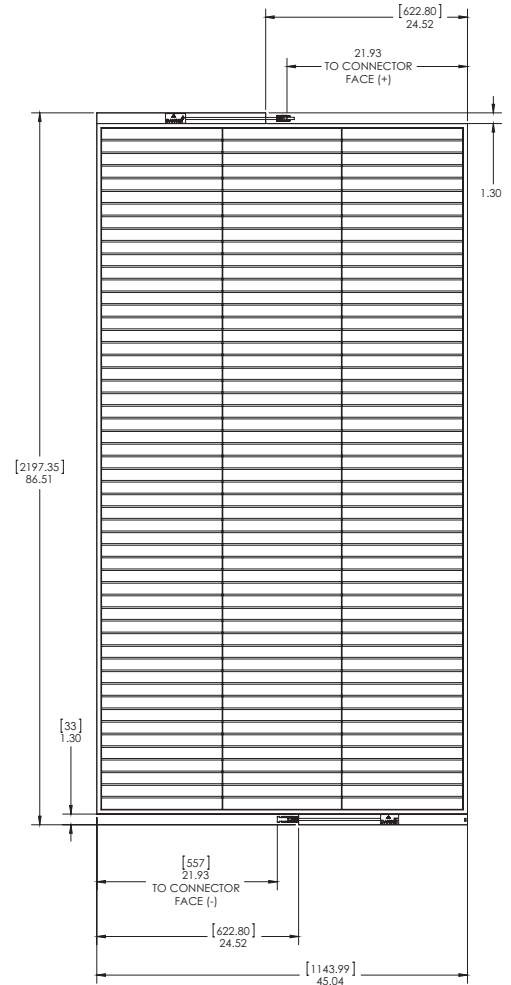
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**IV CURVES**



Current (A) vs. Voltage (V) at various Irradiance levels

**MECHANICAL DRAWING**



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