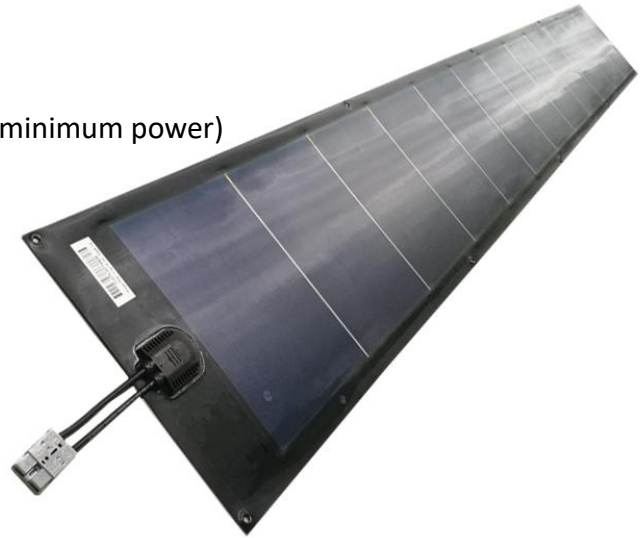


## Model: PVL-78

- High Temperature and Low Light Performance
- 5-Year Limited Product Warranty
- Limited Power Output Warranty
- 92% at 10 years, 84% at 20 years, 80% at 25 years (of minimum power)
- Quick -Connect Terminals and Adhesive Backing
- Bypass Diodes for Shadow Tolerance



### Performance Characteristics

Rated Power(Pmax): 78.52 Wp  
 Production Pmax Tolerance:  $\pm 10\%$   
 Maximum Power Voltage(V): 19.2V  
 Maximum Power Current(A): 4.09A  
 Open Circuit Voltage(V): 26.4V  
 Short Circuit Current(A): 5.1A  
 Maximum System Voltage IEC/UL(V): 1000/600

### Construction Characteristics

Dimension: Length 2982mm, Width: 378mm, Depth: 1.5mm  
 Weight(without adhesive): 3.03KG  
 Optional eyelets on 4 corners  
 Cables: AmphenolH4/ TYCO / MC4 Compatible  
 Bypass Diodes: Connected across every solar cell  
 Encapsulation: Durable ETFE high light-transmissive polymer  
 Adhesive: Ethylene propylene copolymer adhesive sealant with microbial inhibitor  
 Cell Type: 12 Triple junction amorphous silicon solar cells connected in series

### Certificate: CE

### Laminate Standard Configuration

Photovoltaic laminate with potted terminal housing assembly with output cables and quick-connect terminals on top.

### Application Criteria

- Installation temperature between 10°C - 40°C
- Maximum roof temperature 85°C
- Minimum slope: 3°
- Maximum slope 60°
- Approved substrates include certain membrane and metal roofing products:
  - TPO membranes
  - Modified Bitumen
  - Coated Steels, PVDF, SMP, Polyseter, Acrylic, Galvalume Plus, Galvaneal
  - EPDM membranes
  - Polycarbonate
  - Other Materials, including Multiple RV Backsheets, PVDF film(kynar), Tefzel, Glass, Stainless steel, Noryl, Lexan, Xyron, Fiberglass reinforced plastics, Aluminum



Flexible



Lightweight



No-Glass



Durable



Shadow Tolerant



High Temp  
Performance

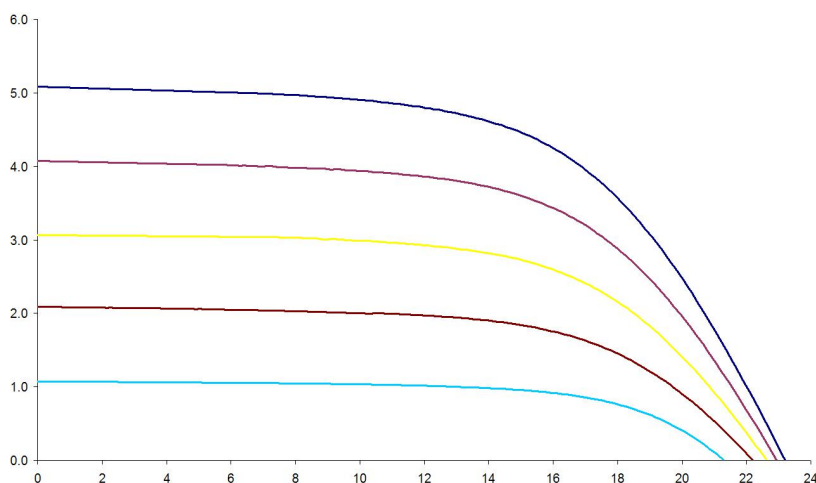
TECHNICAL DATA SHEET

# Solar Laminate PVL-Series

## Model: PVL-78

SINOLTECH®

### IV Curves at various Levels of Irradiance at Air Mass 1.5 and 25 °C Cell Temperature



### Rollable Type



### Folding Type



### Temperature Coefficients

(at AM 1.5, 1000 W/m² irradiance)

Temperature Coefficient (TC) of  $I_{sc}$ :  $0.001/^{\circ}K$  ( $0.10\%/^{\circ}C$ )

Temperature Coefficient (TC) of  $V_{oc}$ :  $-0.0038/^{\circ}K$  ( $-0.38\%/^{\circ}C$ )

Temperature Coefficient (TC) of  $P_{max}$ :  $0.0021/^{\circ}K$  ( $-0.21\%/^{\circ}C$ )

Temperature Coefficient (TC) of  $I_{mp}$ :  $0.001/^{\circ}K$  ( $0.10\%/^{\circ}C$ )

Temperature Coefficient (TC) of  $V_{mp}$ :  $-0.0031/^{\circ}K$  ( $-0.31\%/^{\circ}C$ )

$$y = y_{reference} \cdot [1 + TC \cdot (T - T_{reference})]$$

### Notes:

1. During the first 8-10 weeks of operation, electrical output exceeds specified ratings. Power output may be higher by 15 %, operating voltage may be higher by 11 % and operating current may be higher by 4 %.
2. Electrical specifications are based on measurements performed at standard test conditions of 1000 W/m² irradiance, Air Mass 1.5, and cell temperature of 25 ° C after stabilization.
3. Actual performance may vary up to 10 % from rated power due to low temperature operation, spectral and other related effects. Maximum system open-circuit voltage not to exceed 600 VDC per UL.
4. Specifications subject to change without notice.



SINOLTECH

### Contact Us:

SINOLTECH ENERGY LIMITED

Shandong Sinoltech International Co., Ltd

TEL: +86-15318807707 / +86-18678875144

FAX: 0086-531-88894033

Sales office address: No.555 Jingde Road, Licheng district, Jinan, CHINA

Email: Susan@sinoltech.com / Sinoltech@hotmail.com

SKYPE: Sinoltech

Website: www.sinoltech.com

