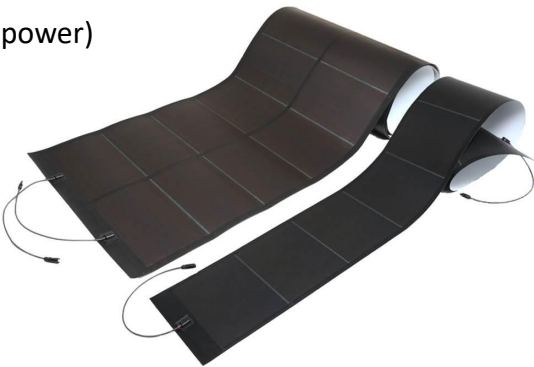


- High Temperature and Low Light Performance
- 5-Year Limited Product Warranty
- Limited Power Output Warranty
- 92% at 10 years, 84% at 20 years, 80% at 25 years (of minimum power)
- Quick -Connect Terminals and Adhesive Backing
- Bypass Diodes for Shadow Tolerance



Performance Characteristics

Rated Power(Pmax): 40 Wp
Production Pmax Tolerance: $\pm 10\%$
Maximum Power Voltage(V): 9.6V/19.2V
Maximum Power Current(A): 4.1A/2.05A
Open Circuit Voltage(V): 13.2V/26.4V
Short Circuit Current(A): 5.1A/2.55A
Maximum System Voltage IEC/UL(V): 1000/600

Construction Characteristics

Dimension: Length 1536mm, Width: 378mm, Depth: 2.5mm
Weight(without adhesive): 1.70KG
Weight(with adhesive): 1.90KG
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: 6 Triple junction amorphous silicon solar cells connected in series

Certificate: CE

Laminate Standard Configuration

Photovoltaic laminate with potted termnial 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

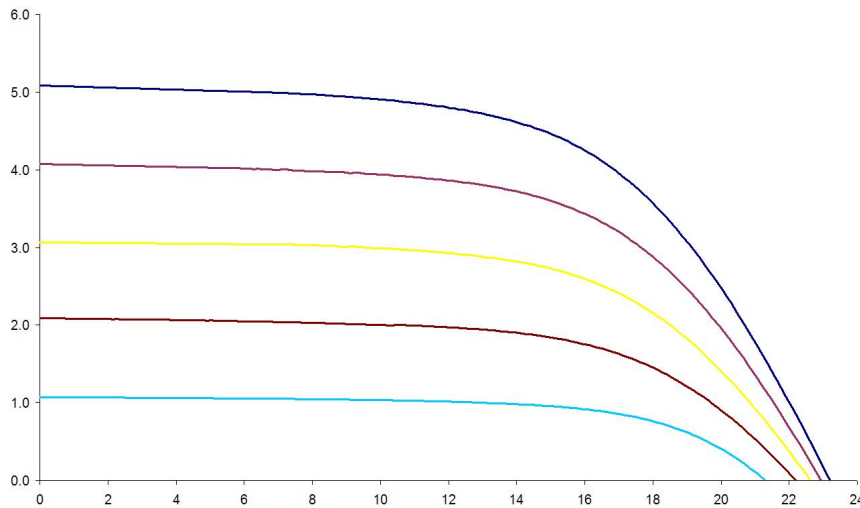


High Temp
Performance

TECHNICAL DATA SHEET

Model: PVL-40

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



Temperature Coefficients

(at AM 1.5, 1000 W/m² irradiance)

Temperature Coefficient (TC) of Isc: 0.001/° K (0.10%/° C)

Temperature Coefficient (TC) of Voc: -0.0038/° K (-0.38%/° C)

Temperature Coefficient (TC) of Pmax: 0.0021/° K (-0.21%/° C)

Temperature Coefficient (TC) of Imp: 0.001/° K (0.10%/° C)

Temperature Coefficient (TC) of Vmp: -0.0031/° K (-0.31%/° C)

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

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

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

