Solar Laminate SND-Series

SINOLTECH®

Model: SND44-288

- 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): 288Wp
Production Pmax Tolerance: ± 10%
Maximum Power Voltage(V): 35.2V
Maximum Power Current(A): 8.18A
Open Circuit Voltage(V): 48.4V
Short Circuit Current(A): 10.2A
Maximum System Voltage IEC/UL(V): 1000/600

Construction Characteristics

Dimension: Length 5392mm, Width: 740mm, Depth: 2.5mm
Weight(without adhesive): 10.6KG
Weight(with adhesive): 11.5KG
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: 44 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℃ - 40℃
- Maximum roof temperature 85℃
- 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

TECHNICAL DATA SHEET


Flexible


Lightweight


No-Glass


Durable


Shadow Tolerant

High Temp Performance

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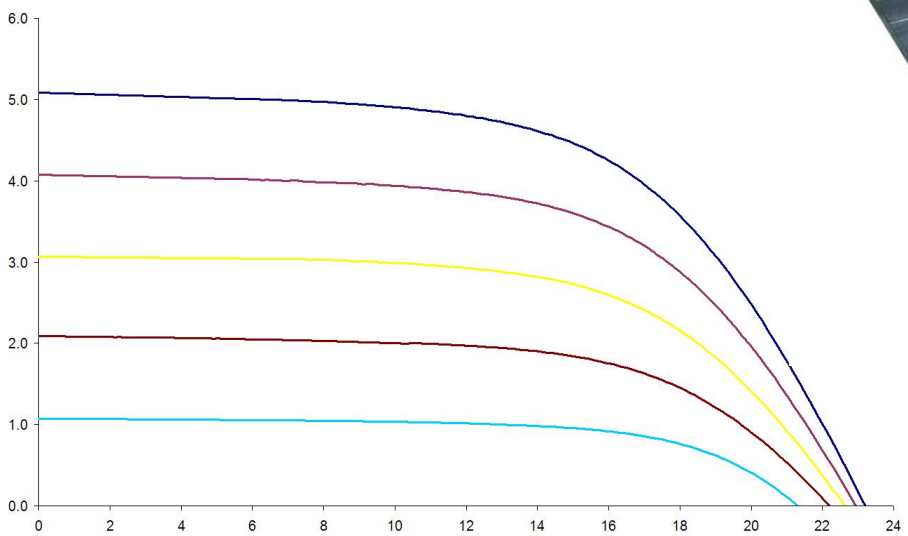
IV Curves at various Levels of Irradiance at Air Mass 1.5 and 25 ℃ Cell Temperature



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 = yreference • [1 + TC • (T- Treference)]

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