FlexLight

ADVANCED GREEN TECHNOLOGIES

PVL-204TPO CLAD

MODEL NUMBER

PERFORMANCE CHARACTERISTICS

- Rated Power (Pmax): 204W
- Production Tolerance: ±5%

CONSTRUCTION CHARACTERISTICS

- 3 PVL-68 factory applied to TPO on clad metal flashing.
- Dimensions: 40 ft^2; Length: 3048mm (120 in)
  Width: 1219.20mm (48 in)
- Weight: 39.74 kg (87.6 lbs)
- Output Cables: 2.5 mm^2 cable with weatherproof DC rated quick-connect terminals, 560 mm (22 in) length for each of 3 PV laminates
- By-Pass Diodes: Connected across every solar cell. This protects the solar cell from power loss in case of partial shading or damage of individual solar cells while other cells are exposed to full sunlight
- Laminate Encapsulation: Durable ETFE (e.g. Tefzel®) high light-transmissive polymer.
- Cell Type: 55 triple junction amorphous silicon solar cells 356 x 239 mm (14 in x 9.4 in) connected in series

FEATURES

- Factory laminated TPO membrane on galvanized sheet metal
- Flexible and lightweight – panels are virtually unbreakable, with each weighing less than one pound per square foot
- Triple junction technology – captures the complete solar spectrum more efficiently
- Generates electricity at low light levels – produces more electricity per watt than any other system
- Bypass diode across every solar cell – minimises power loss when shaded
- Designed to comply with FIT and Micro FIT programs for domestic content package requirements
- Laminates are Miami Dade County approved for wind rating up to 234.96 kph (146 mph)

SUBSTRATE CONFIGURATION

- Galvanized sheet metal with a factory-laminated white DOW TIEMPO™ + 2000 TPO membrane surface. Please contact AGT for details.

QUALIFICATIONS AND SAFETY

UL®

Listed by Underwriters Laboratories and Canadian Underwriters Laboratories for electrical and fire safety (Class A Max. Slope 2/12, Class 8 Max. Slope 3/12, and Class C Unlimited Slope fire ratings) for use in systems up to 600 VDC. Meets IEC 61646 Requirements.

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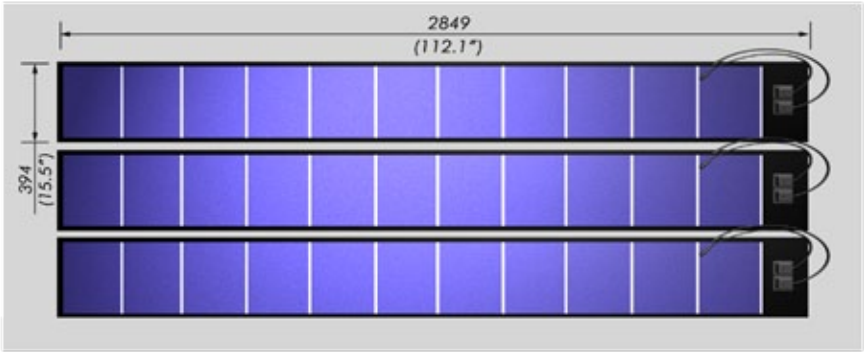
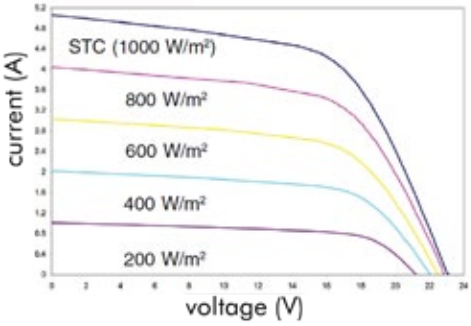
UNI-SOLAR
United Solar Ovonic

All measurements in mm. Inches in parentheses.
Tolerances Length: ±5mm Width: ±3mm.

APPLICATION CRITERION

- Maximum temperature 85°C (185°F).
- Minimum slope 1 cm of fall per meter.
- Maximum slope 21:12
- Refer to manufacturers installation guide for approved substrates & installation.





IV Curves at various levels of irradiance at Air Mass 1.5 and 25° C Cell Temperature

ELECTRICAL SPECIFICATIONS for each of 3 PVL-68:

Standard Test Conditions (STC)	Nominal Operating Cell Temperature (NOCT)
(1000 W/m² • AM 1.5, 25°C Cell Temperature)	(800 W/m², AM 1.5, 1 m/sec. wind)
- Maximum Power (Pmax): 68 W	- Maximum Power (Pmax): 53 W
- Voltage at Pmax (Vmp): 16.5 V	- Voltage at Pmax (Vmp): 15.4 V
- Current at Pmax (Imp): 4.1 A	- Current at Pmax (Imp): 3.42 A
- Short-circuit Current (Isc): 5.1 A	- Short-circuit Current (Isc): 4.1 A
- Open-circuit Voltage (Voc): 23.1 V	- Open-circuit Voltage (Voc): 21.1 V
- Maximum Series Fuse Rating: 8 A	- NOCT: 46°C

TEMPERATURE COEFFICIENTS

(at AM 1.5, 1000 W/m² irradiance)

- Temperature Coefficient of Isc: 5.1 mA/K (0.10%/°C)
- Temperature Coefficient of Imp: 4.1 mA/K (0.10%/°C)
- Temperature Coefficient of Voc: -88 mV/K (-0.38%/°C)
- Temperature Coefficient of Vmp: -51 mV/K (-0.31%/°C)
- Temperature Coefficient of Pmax: -143 mW/K (-0.21%/°C)

NOTES:

1. 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 and cUL.
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. During the first 8-10 weeks of operation, electrical output exceeds specified ratings.
4. Power output may be higher by 15%, operating voltage may be higher by 11% and operating current may be higher by 4%.
5. Specification subject to change without notice.

AGT is affiliated with the following Canadian associations:

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