

- High Temperature and Low Light Performance
- 25 Year Warranty on Power Output at 80%
- Quick-Connect Terminals*
- Bypass Diodes for Shadow Tolerance
- UL Listed to 600 VDC 
- Meets IEC 61646 Requirements
- Miami-Dade Approved

PERFORMANCE CHARACTERISTICS

Rated Power (Pmax): 68W

Production Tolerance: ±5%

CONSTRUCTION CHARACTERISTICS

Dimensions: Length: 2849 mm (112.1"), Width: 394 mm (15.5"),
Depth: 4 mm (0.2"), 16 mm (0.6") including junction box

Weight: 3.9 kg (8.7 lbs.)

Outlet Cables: ~2.5 mm² cable with weatherproof DC rated quick-connect terminal*
560 mm (22") length

By-pass Diodes: Connect across every solar cell

Laminate

Encapsulation: Durable ETFE (e.g. Tefzel[®]) high light-transmissive polymer

Adhesive: Ethylene propylene copolymer

Cell Type: 22 triple junction amorphous silicon solar cells 356 x 239 mm (14" x 9.4")
connected in series

CERTIFICATIONS

 Listed by Underwriter's Laboratories for electrical and fire safety (Class A Max. Slope 2/12, Class B Max. Slope 3/12, and Class C Unlimited Slope fire ratings) for use in systems up to 600 VDC.

Miami-Dade approved.

LAMINATE STANDARD CONFIGURATION

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

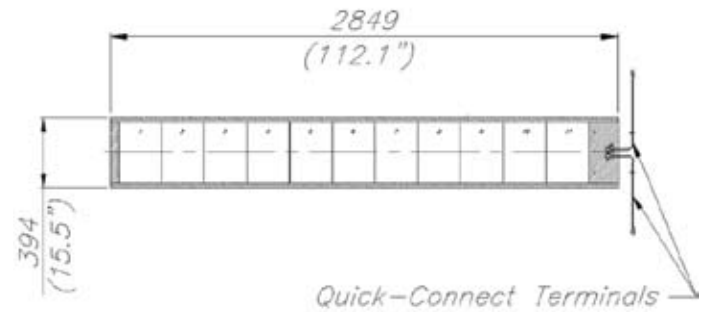
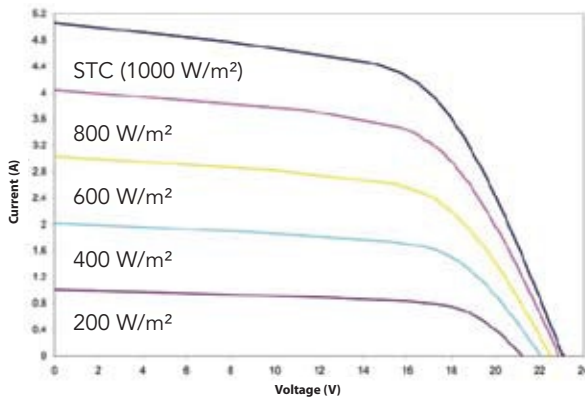
APPLICATION CRITERION

- New or other qualified roof installations
- 16" minimum steel pan width
- PVDF Coated (Galvalume[®], Zinalume[®] or aluminum panels)
- Roof panels with flat surface (without pencil beads, stiffening ribs, or decorative stippling)
- Installation by certified installers only
- Installation temperature between 10°C - 40°C (50°F - 100°F)
- Maximum roof temperature 85°C (185°F)
- Refer to manufacturer's installation guide for approved substrates & installation methods



*e.g., Multi-Contact (MC[®]) connectors

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



All measurements in mm. Inches in parentheses.
Tolerances: Length: ± 5 mm (1/4")
Width: ± 3 mm (1/8")

ELECTRICAL SPECIFICATIONS: STC

(1000 W/m², AM 1.5, 25°C Cell Temperature)

Maximum Power (Pmax): 68 W

Voltage at Pmax (Vmp): 16.5 V

Current at Pmax (Imp): 4.1 A

Short-circuit Current (Isc): 5.1 A

Open-circuit Voltage (Voc): 23.1 V

Maximum Series Fuse Rating: 8 A

TEMPERATURE COEFFICIENTS

(at AM 1.5, 1000 W/m² irradiance)

Temperature Coefficient of Isc: 5.1mA/K

Temperature Coefficient of Voc: -88mV/K

Temperature Coefficient of Pmax: -143mW/K

Temperature Coefficient of Imp: 4.1mA/K

Temperature Coefficient of Vmp: -51mV/K

NOCT

(800 W/m², AM 1.5, 1 m/sec. wind)

Maximum Power (Pmax): 53 W

Voltage at Pmax (Vmp): 15.4 V

Current at Pmax (Imp): 3.42 A

Short-circuit Current (Isc): 4.1 A

Open-circuit Voltage (Voc): 21.1 V

NOCT: 46°C

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.



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