Key Attributes

Weight	2.06 lbs per square foot (10.06 kg/m²)
Power Rating	Industry leading 144 watts per panel
Wind Rating	120 mph (193 kph)
Tilt	15 degrees for increased performance
Energy Yield	10-20% more than crystalline
Roof Penetration	None
Roof Attachment	Various non-penetrating attachment mechanisms depending on roof type.

The *UNI-SOLAR* Power*Tilt* photovoltaic panel is available to solar integrators and installers. Please contact one of our many partner companies to purchase your integrated solar roofing solution today.

Global Contact Information

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To learn more about Power*Tilt* and other *UNI-SOLAR* products, please call **1.800.528.0617**, or visit us at **uni-solar.com**

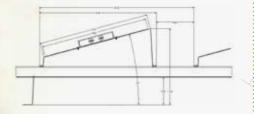
Concrete-Ballasted Attachment



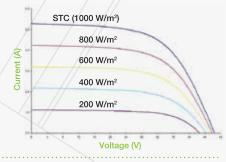
PowerTilt photovoltaic panels can be applied with a simple, concreteballasted attachment, adjustable to conform to uneven rooftop surfaces.

Electrical Specifications

PV GCR: 0.66; SHADING GCR: 0.78 DIMENSIONS: 22.50 N-S 219.25 E-W AREA PER TILT PAN: 33.83 SQ. Ft.



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



STC

(Standard Test Conditions) (1000 W/m², AM 1.5, 25°C Cell Temp.)

Maximum Power (Pmax): 144 W
Voltage at Pmax (Vmp): 33.0 V
Current at Pmax (Imp): 4.36 A
Short-circuit Current (Isc): 5.3 A
Open-circuit Voltage (Voc): 46.2 V
Maximum Series Fuse Rating: 10 A

NOCT

(Nominal Operating Cell Temp.) (800 W/m², AM 1.5, 1 m/sec. wind)

Maximum Power (Pmax): 111 W Voltage at Pmax (Vmp): 30.8 V Current at Pmax (Imp): 3.6 A Short-circuit Current (Isc): 4.3 A Open-circuit Voltage (Voc): 42.2 V NOCT: 46 °C

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 V_{mp}: -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 tolerance for Pmax is +/-5% and for other parameters is +/-10%. 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 (per ASTM E892) after long-term stabilization.
- 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 (NEC rating).
- 4. Specifications subject to change without notice.