



Key Attributes and Specifications (10 Panel Array)

Total System Weight	740 lbs
Power	1440 Watts
Wind Rating	120 mph (193 kph)
Tilt	15 degrees for increased performance
Roof Penetration	None
Roof Attachment	Ballasted shown
Weighted Area	359.0 ft ²
PV Area	334.9 ft ²
Power Density	4.30 Wp/ft ²
Number of Base Supports	15
Minimum Ballasted System Density*	4.09 lbs/ft ²
Unballasted Point Load	49.33 lbs
Warranty	Limited power output warranty: 92% at 10 years; 84% at 20 years; 80% at 25 years (of minimum power). 5-Year limited product warranty.

*The minimum value represents an array oriented <10° to the building edges at a 90mph wind speed.

Concrete-Ballasted



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



Item # Qty. Description

	5	Support Rail
2	30	Riser
3	15	Base Support
4		Wiring Tray
5	10	Tilt Pan
6	10	Terminal Housing Cover
7	10	Nut Member
201	10	Solar Panel, 22L
202	20	Grommet Clamp
203	20	Cable Tie, 6" Black
204	20	Strain Relief Adhesive Mounting Pad
301	220	Hex Head, Thread Rolling Screw, M6 x 12 LG
302	60	M6, Flat Washer, 18mm O.D.
303	70	Hex Head, Thread Rolling screw, M5 x 12 LG
404	40	







Electrical Specifications 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: 8 A

NOCT

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

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)

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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.

perature of 25°C (per ASTM E892)

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UNI-S●LAR. PowerTilt[™]

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

4. Specifications subject to change without notice.

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 (NEC rating)

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