

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 ft²

PV Area 334.9 ft²

Power Density 4.30 Wp/ft²

Number of Base 15

Supports

Minimum Ballasted 4.09 lbs/ft²

System Density*

Unballasted 49.33 lbs/ft²

Point Load

Warranty Limited power output warranty: 92% at 10 years; 84% at 20 years;

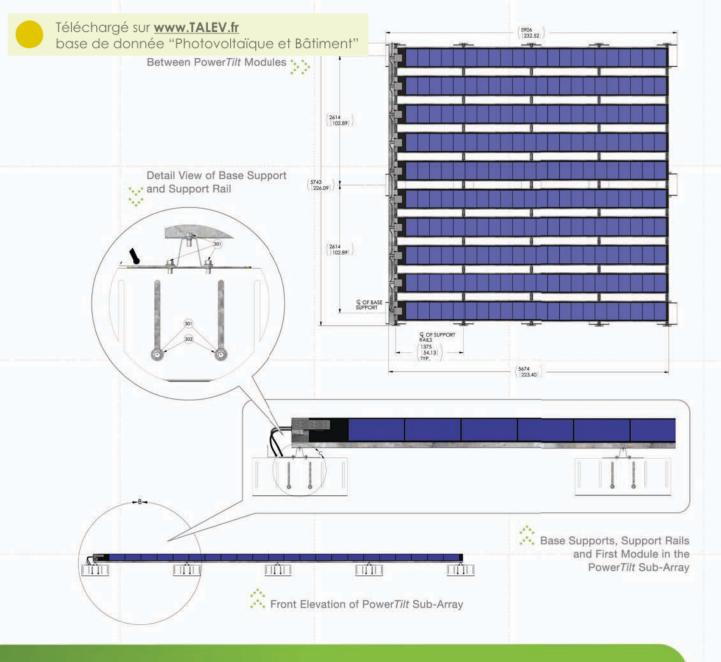
80% at 25 years (of minimum power). 5-Year limited product warranty.

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

Concrete-Ballasted



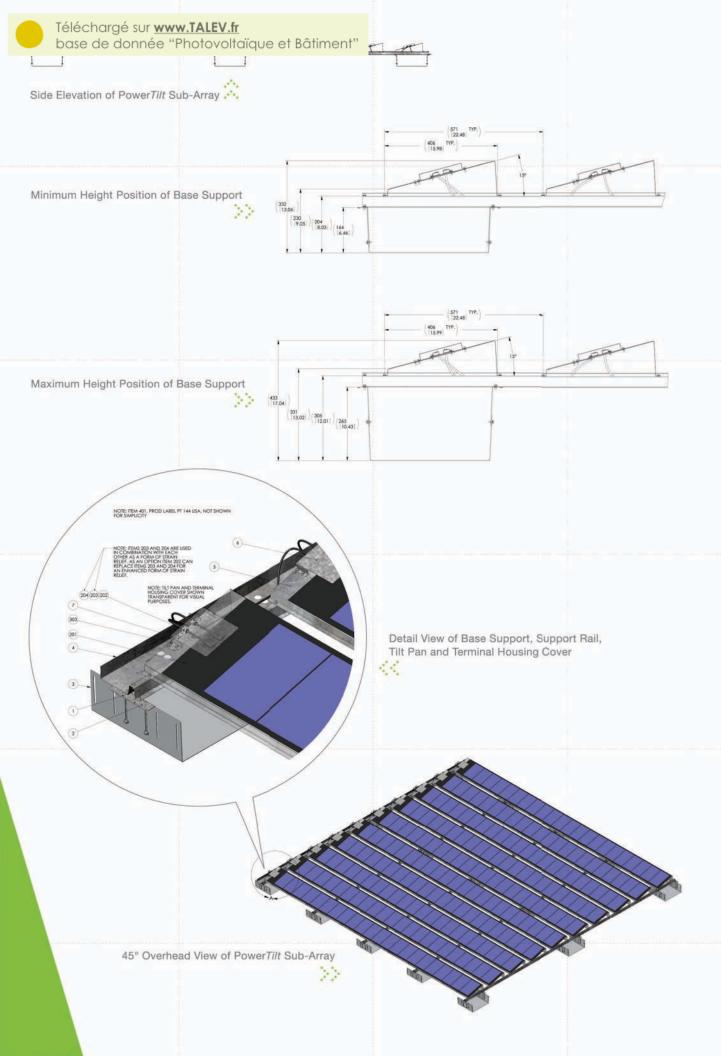
PowerTilt photovoltaic panels can be applied with a simple, concreteballasted attachment, adjustable to conform to uneven roofton surfaces

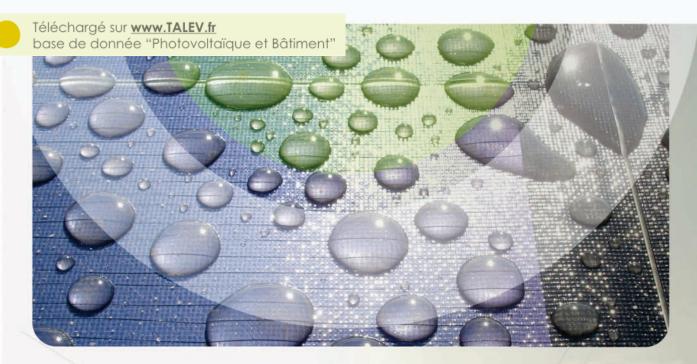


Item #	Qty.	Description
	5	Support Rail
	30	Riser
	15	Base Support
		Wiring Tray
5	10	Tilt Pan
	10	Terminal Housing Cover
	10	Nut Member
201	10	Solar Panel, 22L
202	20	Grommet Clamp
203	20	Cable Tie, 6" Black
204	20	Strain Relief Adhesive Mounting Pad
301	220	Hex Head, Thread Rolling Screw, M6 x 12 LG
302	60	M6, Flat Washer, 18mm O.D.
303	70	Hex Head, Thread Rolling screw, M5 x 12 LG
401	10	Prod Label PT 144

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Power*Tilt*™





Electrical Specifications

(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 V_{mp}: -0.0031/K (-0.31%/C)

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

Notes:

- 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%.
- 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.

Global Contact Information

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PowerTilt™

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