

# MEDIUM TULIP WIND TURBINE

The Medium Tulip turbine is a convenient size for many projects. Thanks to our Bouquet Effect, the more turbines you put together, the more output you receive from each turbine. For a flat strong roof or ground installation. Standard color is white.

*Please note that projected data is based on research, field testing, and simulations.*



**Model Number:** FT 2M-Lite Turbine

**Type:** 2 Bladed Vertical Axis Wind Turbine

**IEC Turbine Class:** IEC61400 Class IV

**Rated Power:** 500 watts, reached at  $\approx 11$  m/s (25mph) (higher capacity for bouquets\*)

**Expected Production:**  $\approx 622.1$  w/h at 12 m/s (27mph) with a 25-228% increase per turbine when properly oriented to utilize the Bouquet Effect.

**Expected Production in a Bouquet of 5:**  $\approx 1.147$  Kw/h each when correctly oriented ( $\approx 5.7$  Kw/h total) at 12 m/s (27mph)

**Grid-Tied Output:** 240VAC/1PH/60Hz or 230VAC/1PH/50Hz

**Generator:** High Efficiency Permanent Magnet Generator

**Bearings:** Included in generator plus a second set on the shaft.

**Blade material:** Thermoplastic

**Ground Pole Mount:** 0.1m (0.33 ft) diameter x 2.44M (8 ft) length - Weight: 30kg (66 lbs)

**Blade Height:** 2 m (6.56 ft)

**Total Height:** 3.008 m (9.87 ft)

**Blades Diameter:** 1.18m (3.85 ft)

**Total Weight:**  $\approx 227.25$ kg (501lbs)

**Cut-In Wind Speed:** 0.7 m/s (1.57 mph)

**Cut-Out Wind Speed:** Inverter or charge controller and electrical brake system will control high speeds. Additional mechanical brake.

**Max Survival Wind Speed:** 54 m/s (120.8 mph)

**Operating Temperature Range:**  $-15^{\circ}\text{C}$  to  $50^{\circ}\text{C}$  ( $5^{\circ}\text{F}$  to  $122^{\circ}\text{F}$ )

**Design Life:** 40 Years (Must be checked annually)

**Warranty Period:** 5 Years for components made by Flower Turbines; other components are according to the warranty that comes from that manufacturer.



Scan this QR Code to visit our online page detailing more about the Medium Tulip Unit.

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