



# SMALL TULIP WIND TURBINE

A 1.5 meter-high turbine with electronics to recharge a 12-volt battery pack or a grid-connection for bouquets. This fits on a pole for fixed installation. It can be used off-grid for lighting small displays or outdoors, or on-grid to supplement solar power.

Standard color is white.

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



**Model Number:** FT 1.15M Turbine

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

**IEC Turbine Class:** IEC61400 Class IV

**Rated Power:** 100 watts, reached at 14.5 m/s (32.4 mph) (higher capacity for bouquets)

**Expected Production:**  $\approx 62.2$  w/h alone at 12m/s (27 mph) with a 25-228% increase per turbine when properly oriented to utilize the Bouquet Effect.

**Expected Production in a Bouquet of 5:**  $\approx 144.7$  w/h each when correctly oriented ( $\approx 723.5$  w/h total) at 12 m/s (27 mph)

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

**Generator:** High Efficiency Permanent Magnet Generator

**Bearings:** Included in Generator

**Blade Material:** Thermoplastic

**Turbine Diameter:** 0.55 m (1.79 ft)

**Blade Height:** 1.15 m (3.77 ft)

**Total Height:** 1.4 m (4.58 ft) with extended pole options.

**Total Weight:**  $\approx 20$  kg (44.1lbs)

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

**Cut-Out Wind Speed:** Inverter or charge controller will control high speeds.

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

**Operating Temperature Range:**  $-15^{\circ}\text{C}$  to  $80^{\circ}\text{C}$  ( $5^{\circ}\text{F}$  to  $175^{\circ}\text{F}$ )

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

**Warranty Period:** 5 Years



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

2601 SE Loop 289 Lubbock, TX 79404  
support.us@flowerturbines.com | FlowerTurbines.com  
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