

SMALL TULIP WIND TURBINE

A 1.5 meter-high turbine with electronics to charge a 12, 24 or 48 volt battery or a grid-connection for large bouquets (depending on the number of turbines and your project). This fits on a pole for fixed installation. It can be used off-grid for lighting small displays outdoors, or on-grid or off-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: ≈ 62.2 w/h alone at 12m/s (27 mph) with a 25% increase for each turbine when properly oriented to utilize the Bouquet Effect.

(Example: 4 turbines times 25% = 100% or double the power)

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

Grid-Tied Output: Between 110 or 220 volts, depending on the country & the inverter used to connect to the grid.

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: ≈ 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°C to 50°C (5°F to 122°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 Small Tulip Unit.



Scan this QR Code to complete our Project Detail Form for help planning your project.