

## Wind Tulip Specification

<b>Model</b>	2SMB100
<b>Type</b>	2 Bladed Vertical Wind Turbine
<b>IEC Turbine Class</b>	IEC61400 Class IV
<b>Rated Power</b>	500 watts at 10 meters/second
<b>Cut-In Wind Speed</b>	1.2 m/s (4.32 km/h) (2.68 mph)
<b>Cut-Out Wind Speed</b>	Inverter or charge controller will control high speeds.
<b>Max. Design Wind Speed</b>	35 m/s (126 km/h) (78 miles per hour)
<b>Blade Material</b>	Aluminum
<b>Number of Blades</b>	2
<b>Segments per Blade</b>	3
<b>Blade Height</b>	1992mm
<b>Blade Diameter</b>	660 mm
<b>Swept area of blades</b>	1.9 m <sup>2</sup>
<b>Generator</b>	High efficiency Permanent Magnet Generator. To be matched to location.
<b>Bearings</b>	32210T67_5_DB - TAPERED ROLLER BEARINGS, SINGLE ROW...2 pieces
<b>Electrical Output</b>	230VAC/3PH/60Hz or 110VAC/3PH/50Hz
<b>Total Height</b>	2872.9 mm
<b>Shaft Diameter</b>	100 mm average
<b>Turbine Diameter</b>	0.66 m
<b>Blade Weight</b>	≈10.3 kg SS - each blade ≈4.6 kg Al6061T6 - each blade
<b>Overall Turbine Weight</b>	≈ 146 Kg ( including generator ) – Al blades ≈ 157 Kg ( including generator ) – SS blades
<b>Design Life</b>	40 years
<b>Operating Temperature Range</b>	-15°C-40°C @ Max. 95% RH
<b>Warranty Period</b>	5 years
<b>Color</b>	Standard white on inside and outside. Option of other colors or vinyl car wrapping.