

## Wind Tulip Specification

<b>Model</b>	2BL50
<b>Type</b>	2 Bladed Vertical Wind Turbine
<b>IEC Turbine Class</b>	IEC61400 Class III
<b>Rated Power</b>	100 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>	Charge controller will control high speeds.
<b>Max. Design Wind Speed</b>	20 m/s (72 km/h) (45 miles per hour)
<b>Blade Material</b>	6016 T6 Aluminum (coated or anodized for salt water areas); stainless steel (316L or coated for areas near saltwater)
<b>Number of Blades</b>	2
<b>Segments per Blade</b>	2
<b>Blade Height</b>	983 mm
<b>Blade Diameter</b>	330 mm
<b>Swept area of blades</b>	1.98m <sup>2</sup>
<b>Generator</b>	High efficiency Permanent Magnet Generator. To be matched to location.
<b>Bearings</b>	4 Angular contact ball bearings –single row <b>7306 BE-2RZP</b>
<b>Electrical Output</b>	DC power to battery
<b>Total Height</b>	1346 mm
<b>Shaft Diameter</b>	50 mm average
<b>Turbine Diameter</b>	0.48 m
<b>Blade Weight</b>	Blades Al 5052 = 4.2 Kg Holders SS 316L = 1.5 kg
<b>Overall Turbine Weight</b>	≈ 35 Kg including generator and base
<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 or silver. Vinyl car wrapping optional.