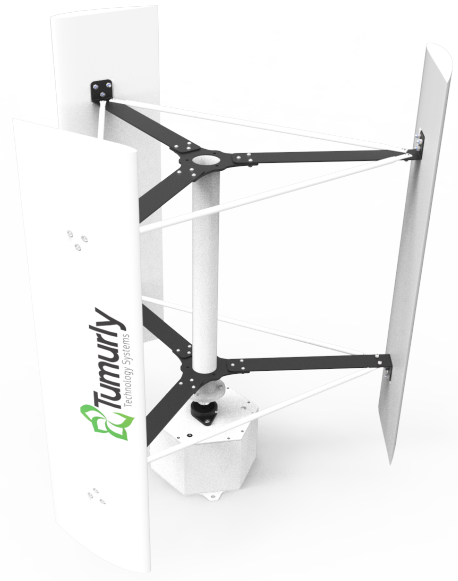


Vortex5.0



efficient , durable, reliable, technological

Tumurly® Vortex5.0 vertical wind turbine is an extremely durable and efficient wind turbine of the latest generation. Vortex5.0 wind turbine has a technological and highly efficient vertical blade design and a permanent magnet generator having strong N42 neodymium magnets with steel slots inside. In case the wind speed is over 3 m/s, the turbine will be rotating freely by exceeding this holding torque. The maintenance-free sliding contact (slip ring) guarantees a good current flow and thereby no twisting of the cable in the pole. Vortex5.0 wind turbine generates AC Electricity to charge DC batteries or to feed an on-grid inverter to be connected to Grid.

technical data

| | |
|--------------------|--|
| Rated Power | 5000 W (at 12 m/s) |
| Type | 3 blades, vertical |
| Generator | Permanent magnet, brushless, gearless, maintenance- free |
| Housing Material | Aluminium |
| Operating Voltage | 0 - 90 AC |
| Current | 3-Phase-AC |
| Total Turbine Mass | 125 kg |
| Max. Noise | 30 dB |
| Life Expectancy | >25 years |
| Warranty | 2 Years |

| | |
|---------------------|--|
| European Directives | Machinery Directive (2006/42/EC) |
| | Low Voltage Equipment Directive (2014/35/EU) |
| | Electromagnetic Compatibility Directive (2014/30/EU) |

| | |
|-------------------------|--------------------------|
| Turbine Diameter | 3000 mm |
| Blade Height | 2000 mm |
| Blade Material | Aluminium |
| Weight per rotor blades | 1000 g |
| Hub Flange | Cast Steel |
| Starting wind speed | 3 m/s |
| Direction | in a clockwise direction |
| Blades Max. RPM | 400 |
| Breaking Method | EM Brake |

| | |
|--------------------|-----------------------|
| European Standards | EN IEC 61400-2:2014 |
| | EN 60204-1:2018 |
| | EN ISO 12100:2010 |
| | EN IEC 61000-6-1:2019 |
| | EN IEC 61000-6-2:2019 |

application

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|---------------------------|
| Commercial and Industrial |
| Residential and Resort |
| Agricultural |
| Remote Communities |
| Off-Grid Power |

key benefits

| |
|---|
| Energy cost savings from wind generated power |
| No scheduled maintenance |
| Designed to reliably operate in harsh cold & hot climates |
| Operation creates virtually no environmental impact |
| Cost-effective and financially viable |

Tumurly® Wind
Distributed Power

Tumurly Headquarter

Reşitpaşa Mah. Katar Cad. Teknokent Arı-4, No:2/50/6, Sarıyer, İstanbul
Turkey, mail : sales@tumurly.com