ENGELEC
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Vertical axis wind turbine generator
Technical Datasheet

Part No: EN-3KW-Q5

Description: The permanent magnetic EN-3KW-Q5 wind turbine is combined by savonius and darrieus turbines, has high-efficient energy output, is the most compact, quiet, rugged and reliable vertical axis small wind turbine. The EN-3KW-Q5 wind turbine is widely used in LED lighting system, signal & camera security, telecommunication field for off-grid residence. The EN-3KW-Q5 wind turbine is extremely easy to integrate with solar panels to create off-grid power systems that require modest amounts of energy. Available in 120V for battery.

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Design

1) The EN-3KW-Q5 is the best & reasonable combination of savonius and darrieus wind turbine generator.
2) The EN-3KW-Q5 is designed on a unique low inertia axial flux generator which utilizes Neodymium permanent magnetic material.
3) The E EN-3KW-Q5 has zero cogging with its highly efficient, allow the turbine to generate power at very low wind speeds and deliver a high output in working wind speeds.
4) The EN-3KW-Q5 can survive from winds up to 45m/s by a passive aero-dynamic design that reduces turbine RPM and power output at a certain threshold.
5) The robust aluminum alloy chassis and stainless steel components are protected by the aerospace grade coatings and anodizing.

Advantage

Self Start
Savonius blades, breeze start, low cogging torque at 3 m/s

Quiet
Low noise, < 40dB above background

Reliable
Precision Aerodynamic design from aircraft-engineering

Rugged
Durable, withstands storm force winds up to 45m/s

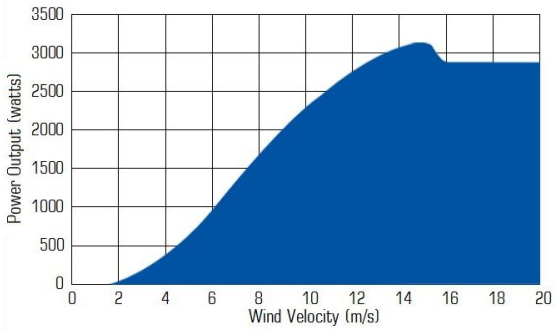
High output
Darrieus blades, high efficiency.

Feature

EN-3KW-Q5 wind turbine

Turbine diameter	:	2.8 meter
Turbine height	:	3.0 meter
Rotor Type	:	Vertical savonius & darrieus combination
Blade Material	:	Casting aluminum alloy
Rated output	:	3000w at 13m/s
Peak output	:	3100W
Cut-in speed	:	3m/s
Voltage	:	120V

EN-3KW-Q5 wind turbine power curve



* Wind turbine performance is subject to many factors. All output data contained in this document is indicative and actual turbine outputs will depend on the prevailing site and installation conditions.

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