NEWSKY Power BY COMMERCIAL ENERGY

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MAX series Wind Turbine

◆MAX 400W ◆MAX 600W ◆MAX 800W ◆MAX 1200W

- Bearing from “SKF” Sweden.
- Stainless steel screw bolt from “THE”.
- Primary aluminum housing, not secondary aluminum.
- Low start-up wind speed
- High-efficient Generator
- Perfect Wind Wheel System
- Unique Design Of The Rudder
- Damp-proof, sand-proof, Anti-rust, Anticorrosion
- Easy installation, Free of maintenance, Long lifespan over 15years.

Specification

Model	MAX 400W	MAX 600W	MAX 800W	MAX 1200W
Rated power	400W	600W	800W	1200W
Max power	450W	750W	950W	1300W
Rated voltage	24 VDC	24 VDC	48 VDC	48VDC/110VDC
Rated current	16.7A	25A	16.7A	25A/10.9A
Rated Rpm	650			
Blades	5 Pcs Nylon Fiber glass			
Rated wind speed	11m/s	12m/s		
Start-Up Wind Speed	1.5 (m/s)	1.5 (m/s)	1.5 (m/s)	2.0 (m/s)
Cut-In Wind Speed	2.0 (m/s)	2.0 (m/s)	2.0 (m/s)	2.5 (m/s)
Rotor Diameter	1.7 m	1.7 m	1.8 m	2.0 m
N.W	23KG	28.5KG	30KG	36KG
G.W	28KG	33KG	35.5KG	41KG
Shipping Dimensions	1690*540*290mm	1690*540*290mm	1690*540*290mm	1890*540*290mm
Mount	Flange connection			
Turbine Controller	MPPT wind solar hybrid controller			
Body	Cast aluminum			
Overspeed Protection	Electromagnetic & blade aerodynamic braking			
Working temperature	—20℃~ 120℃			
Certificate	ISO9001:2008 ,CE, Rohs			
Survival Wind Speed	50 m/s			
Warranty	3 year limited warranty			

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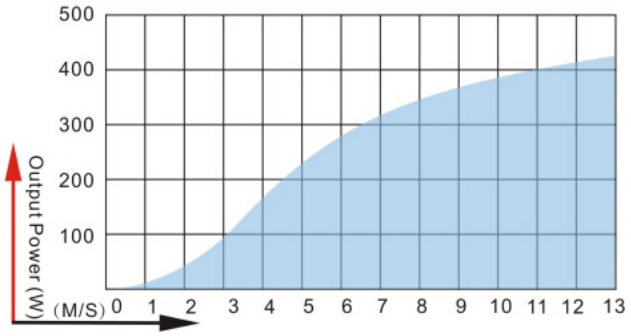
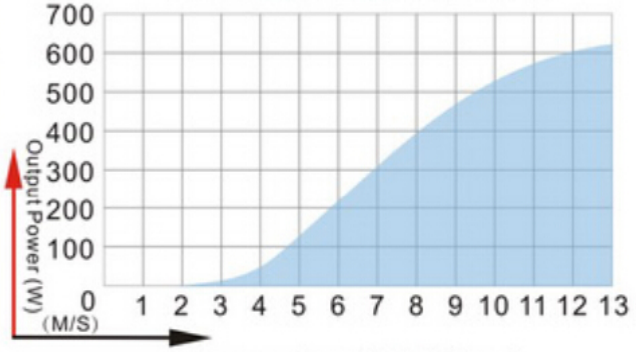
Power curve

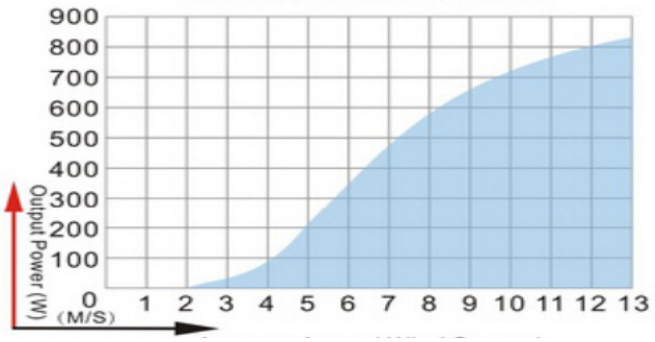
MAX400W



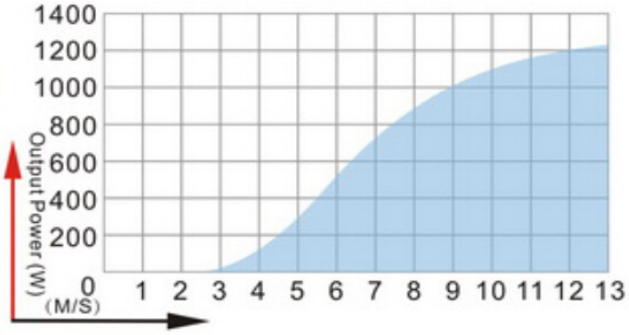
MAX600W



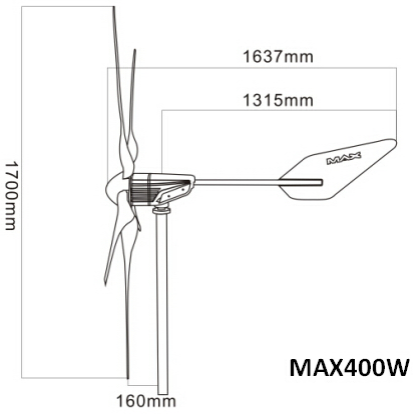
MAX800W



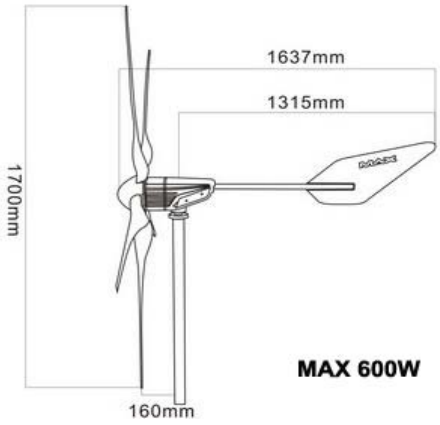
MAX1200W



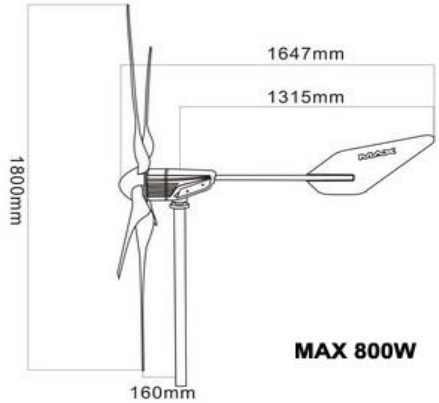
Dimension



MAX400W



MAX 600W



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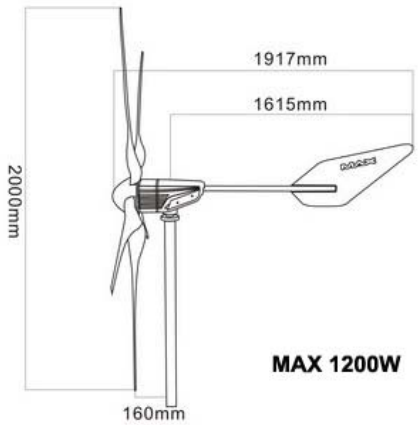

MAX 1200W

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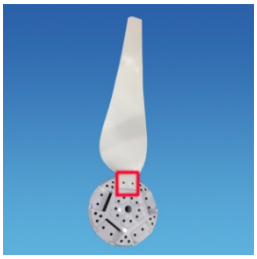
Why us

- Guangxi Pingguo primary aluminum, not recycled aluminum, the free of impurities, higher hardness
- Innovative unique square design. No exposed screws, abandon the traditional single screw connecting stress, adopts embedded connection, the overall motor and blade stress is uniformly distributed on the circular mosaic surface

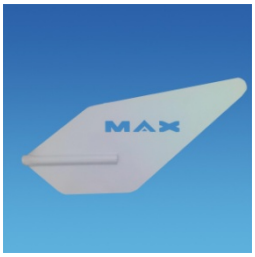
- SKF Sweden original import bearing , low temperature resistant of -40 degrees , adapt to the alpine areas (Tibet, Xinjiang, Inner Mongolia, Northeast China, Russia, Europe, Canada), longer service life.

- Taiwan Dongming 304 stainless steel screws, quality assurance, no rust and fracture, enhance its durability and life expectancy



- Blade and hub: unique patented design, inserted connection, closely connected effectively ensure the safety
- Nylon / glass fiber composite high strength blade, resistant to -40 degrees is not broken, anti UV UV aging, longer life. Enhancement and thickness design of blade, high density and intensity pressure injection, better ablility of wind resistance ,and reduces the noise.

- Body rotation yaw sleeve, the first use of built-in type design, more beautiful. Yaw shaft built-in way, make the yaw and the host machine body increased upper and lower connecting area, uniform stress distribution, safe and beautiful.



- Longer tail rudder design, enhance the ability of matching wind, giving higher generation efficiency. The use of novel high-quality aerospace industry level color galvanizing technology, longer oxidation time.

- Clip: double insurance, prevent the wheels fly off.

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5Blades VS. 3Blades

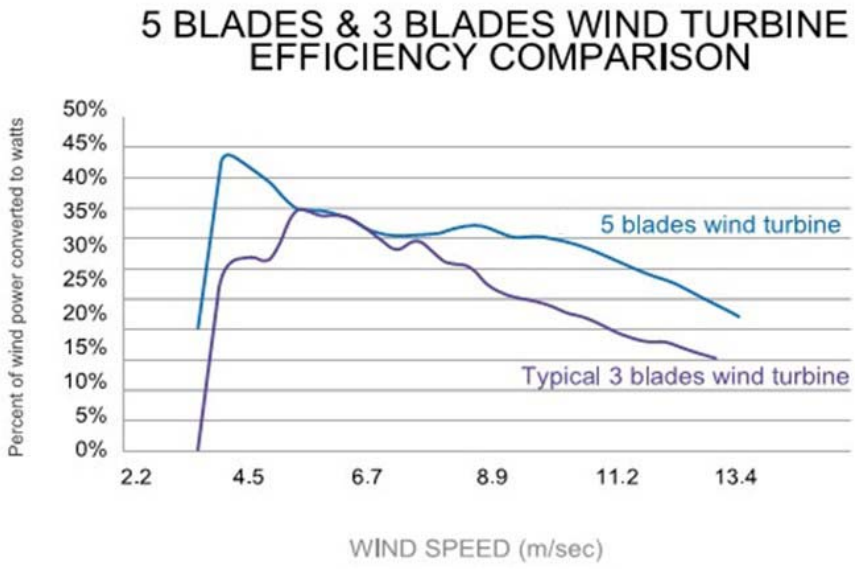
·Designed to maximize energy output at low wind conditions
·Higher maximum power output
·Higher energy output at low wind speed
·Lower cut-in speed
·Lower start-up speed

Advantages of 5-blade wind turbines

·5-blade wind turbines will greatly improve annual energy production in low wind conditions. For areas with average wind speeds of 11 MPH (5m/s). If you compare annual energy output to conventional 3-blade wind turbine, there is an increase of annual energy output of more than 60%.

·5-blade wind turbines will dramatically improve the reliability and safety of the wind turbine. The blade rotation speed of a 5-blade turbine is 60% of the rotational speed for a 3-blade wind turbine. 5-blade wind turbines will greatly reduce the chance of overspeed control malfunction. This will ensure operational reliability from a long term perspective.

·The lower blade rotation speed of a 5-blade wind turbine will lower wind turbine noise and make 5-blade wind turbines more community friendly than 3-blade wind turbines.



5 blades wind turbine shows excellent wind power utilizing efficiency at lower wind (more than 40%), and also good performance at higher wind because smart blade aerodynamic braking could limit rotor speed within its rated RPM to keep generating power in higher wind

Typical 3 blades wind turbine captures much less power from wind at lower wind speed, and wind power efficiency drops in higher wind because dump loader or mechanical furling braking system intermittently limits rotor speed in constantly changing wind, which results in average efficiency drop.

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Workshop view

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Product details

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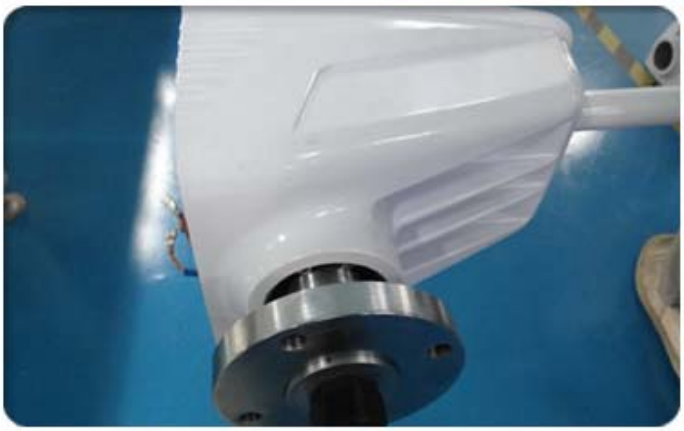

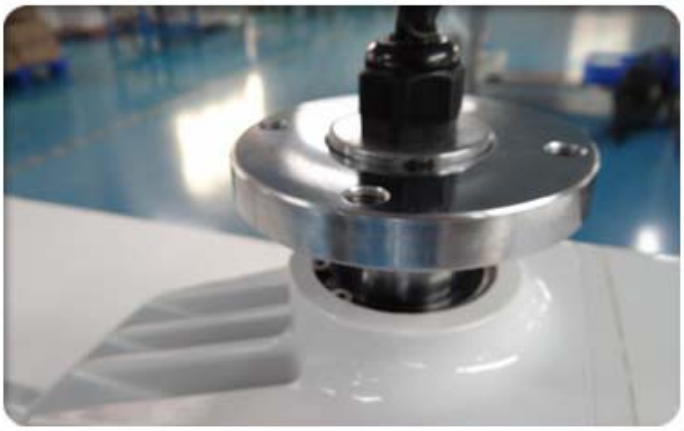

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