

Wind Turbine Permanent Magnet Generator/Alternator Ginlong Technologies GL-PMG-500A (500W)

World Leading Professional Wind Turbine Parts Supplier



Features

- * Low start up speed due to low cogging and resistive torque design.
- * Gearless, direct drive, low RPM generator.
- * High standard, quality components for use in harsh and extreme environments for wind turbines.
- * High efficiency and Low mechanical resistance energy loss.
- * Excellent heat dissipation due to the Aluminium alloy outer frame and special internal structure.
- * High strength from the specially design structure and fully heat treatment Aluminium.
- * Generator is designed using specially selected material and treated to resist corrosion and oxidation.
- * Designed for reliable and long operational life time under long-term full output.
- * Designed for 20-year operation life.
- * Patent protected design.

Main Specifications

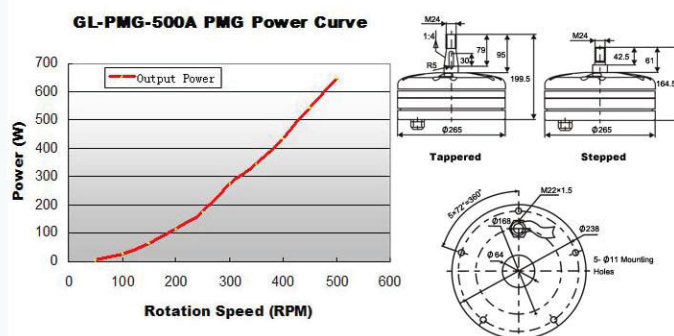
- * Outer frame material High standard Aluminium alloy with TF/T6 heat treatment.
- * Outer frame finish Aluminium surface is anodised then power painted for anti-corrosion protection.
- * Shaft material High standard Stainless Steel.
- * Shaft bearing High standard SKF or NSK bearings.
- * Fasteners (nuts and bolts) High standard Stainless Steel.
- * Lamination stack High specification cold-rolled Steel.
- * Windings temperature rating 180 degrees Celsius.
- * Magnet material NdFeB (Neodymium Iron Boron).
- * Magnets temperature rating 150 degrees Celsius.
- * Generator configuration 3 Phase star connected AC output.
- * Safety capable if withstanding short term shorting of the windings for braking effect at rated rotation speed. Class 1 electrical safety rated for prevention of electrical shocks.

High Quality and Reliable Product

We have an extremely strict quality control procedure. Although we offer world class design and quality in our products, our price is still extremely competitive globally. We warmly welcome you to contact us to discuss about your product and design and allow us to answer any questions you may have.

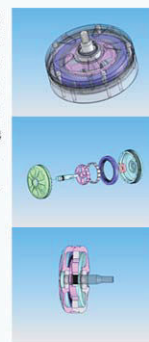


Power Curve & Dimensions



Research & Development

Where we differ from traditional manufacturing companies is our very strong research and development ability. Our R&D team consists of several Ph.D. holders and industry experts to spear head the team. They all have many years of experience in their respective areas of research and expertise which is crucial to the solving of the clients R&D and production problems, some of it resulting in new patents for the company in order to protect the product and design.



Modern Manufacture & Strict QC



We have some of the latest and most advanced tools, equipment and machines at our disposal along with the modern computers and newest software packages backed up with years of design experience.



We have successfully producing over thousands of PMGs to European and American customers.

Ningbo Ginlong Technologies Co., Ltd.

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Wind Turbine Permanent Magnet Generator/ Alternator

Ginlong Technologies GL-PMG-500A

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Electrical Specification

Rated Output Power(W):	500
Rated Rotation Speed (RPM):	450
Recified DC Current at Rated Output (A):	20
Required Torque at Rated Power(NM):	14.8
Phase Resistance (Ohms):	0.66
Output Wire Square Section (mm ²):	6
Output Wire Length (mm):	600
Insulation:	H Class
Generator configuration:	3 Phase star connected AC output
Design Lifetime:	>20 years

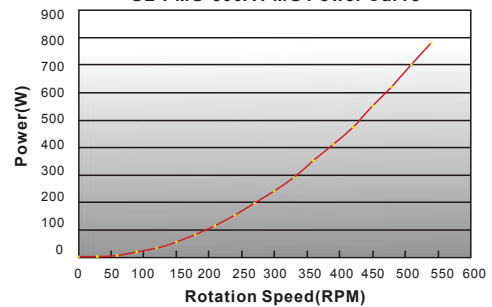
Mechanical Specification

Weight (Kgs):	14.4
Starting Torque (NM):	≤0.45
Rotor Inertia (Kg.m ²):	0.006
Bearing Type:	High standard NSK 6207DDUC3 (Front) NSK 6207VVC3 (Rear)

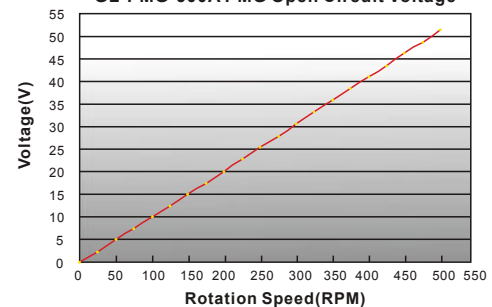
Material Specification

Shaft Material:	High standard Stainless Steel
Shaft Bearing:	High standard SKF or NSK bearing
Outer Frame Material:	High standard Aluminium alloy with TF/T6 heat treatment
(TF/T6 full heat treatment for increasing the performance of aluminium alloy as follows. Heat 4-12 hours at 525-545 degrees Celsius, quench with hot water, and precipitation heat treatment for 8-12 hours at 155-175 degrees Celsius.)	
Fasteners (nuts and bolts):	High standard Stainless Steel
Windings Temperature Rating:	180 degrees Celsius
Magnet Material:	NdFeB (Neodymium Iron Boron)
Magnets Temperature Rating:	150 degrees Celsius
Lamination Stack:	High specification cold-rolled Steel

GL-PMG-500A PMG Power Curve



GL-PMG-500A PMG Open Circuit Voltage



GL-PMG-500A PMG Input Torque Curve

