Wind Turbine Permanent Magnet Generator/ Alternator

Ginlong Technologies GL-PMG-500A

World Leading Professional Wind Turbine Parts Supplier

Electrical Specification

Rated Output Power(W):	500
Rated Rotation Speed (RPM):	450
Recified DC Current at Rated Output (A):	20
Requied Torque at Rated Power(NM):	14.8
Phase Resistance (Ohms):	0.66
Output Wire Square Section (mm^3):	6
Output Wire Length (mm):	600
Insultation:	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 ($Kg.m^3$):	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