

Wind Turbine Permanent Magnet Generator/ Alternator

Savonius 12K

World Leading Professional Wind Turbine Parts Supplier

Electrical Specification

Rated Output Power(W):	12K
Rated Rotatoin Speed (RPM):	135
Recified DC Current at Rated Output (A):	25
Requied Torque at Rated Power (NM):	947
Phase Resistance (Ohm):	5.0
Output Wire Square Section (mm2):	10
Output Wire Length (mm):	700
Insultation:	H Class
Generator configuration:	3 Phase star connected AC output
Design Lifetime:	>20 years

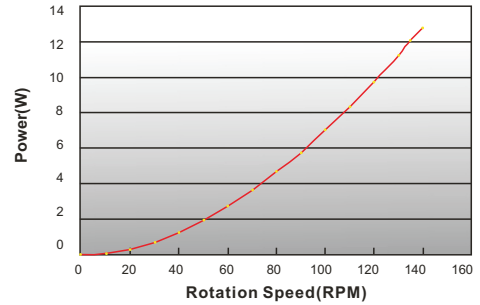
Mechanical Specification

Mounting Type:	Vertical
Weight (Kg):	350
Starting Torque (NM):	<13
Rotor Inertia (Kg.m): ²	1.59
Bearing Type:	High standard NSK 6220DDU (Front) NSK 6220DDU (Rear)

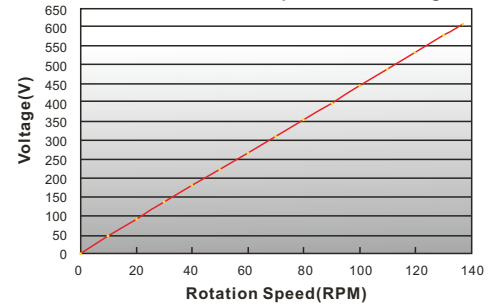
Material Specification

Shaft Material:	Nickle plated 40 Cr Steel with quenching and tempering treatment
Shaft Bearing:	High standard SKF or NSK bearing
Outer Frame Material:	Steel with anti-corrosion treatment
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-12K PMG Power Curve



GL-PMG-12K PMG Open Circuit Voltage



GL-PMG-12K PMG Input Torque Curve

