

# Wind Turbine Permanent Magnet Generator/ Alternator

## Savonius 1800

World Leading Professional Wind Turbine Parts Supplier

### Electrical Specification

Rated Output Power(W):	1800
Rated Rotatoin Speed (RPM):	480
Recified DC Current at Rated Output (A):	6
Requied Torque at Rated Power:	44.5
Phase Resistance (Ohm):	5.0
Output Wire Square Section (mm2):	4
Output Wire Length (mm):	600
Insultation:	H Class
Generator configuration:	3 Phase star connected AC output
Design Lifetime:	>20 years

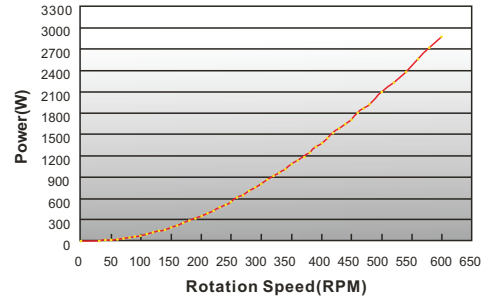
### Mechanical Specification

Weight (Kg):	18.3
Starting Torque (NM):	<0.9
Rotor Inertia (Kg.m): <sup>2</sup>	0.013
Bearing Type:	High standard NSK 6207DDUC3 (Front) NSK 6207VVC3 (Rear)

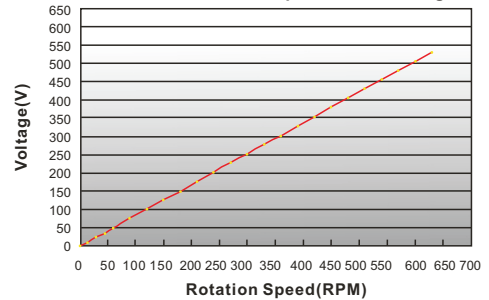
### Material Specification

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-1800 PMG Power Curve



GL-PMG-1800 PMG Open Circuit Voltage



GL-PMG-1800 PMG Input Torque Curve

