



60 KW vertical wind mill

Page 1/4 2016 06 29

VWM 60 is a 60 KW vertical wind mill designed and produced by an old and large supplier of qualified wind mills. They have been in this area for many years. 3000 turbines has been installed world wide in 59 countries Vertical turbines are silent and have low vibrations. The lower speed of turbine wheel makes them far less noisy that propeller turbines

On e unique feature is the speed control system by pitch control that reduce the stresses of a system in hard wind and make it better in low wind speeds.

Performance

Rated Power	50kW
Max Power	60kW
Rated Wind Speed	13m/s
Cut-In Speed	2m/s
Cut-Out Speed	25m/s
Survival Wind Speed	60m/s

Physical Parameters

Mill Diameter	12m
Mill Height	9m
Mill Weight	10.8 ton
Blade Number	4
Blade Material	FRP
Tower Height & Weight	11.5m (2.8 ton)
Tower Style	Truss Structure

Generator Parameters

Type	PMG 3 Phase
Rated Voltage	AC 450V
Rated Current	AC 64.2A

Protection & Braking System

Speed Control Style	Active Hydraulic Pitch Control
Brake Style	Automatic Hydraulic Brake
Protection Level	IP54

Remote Monitoring System



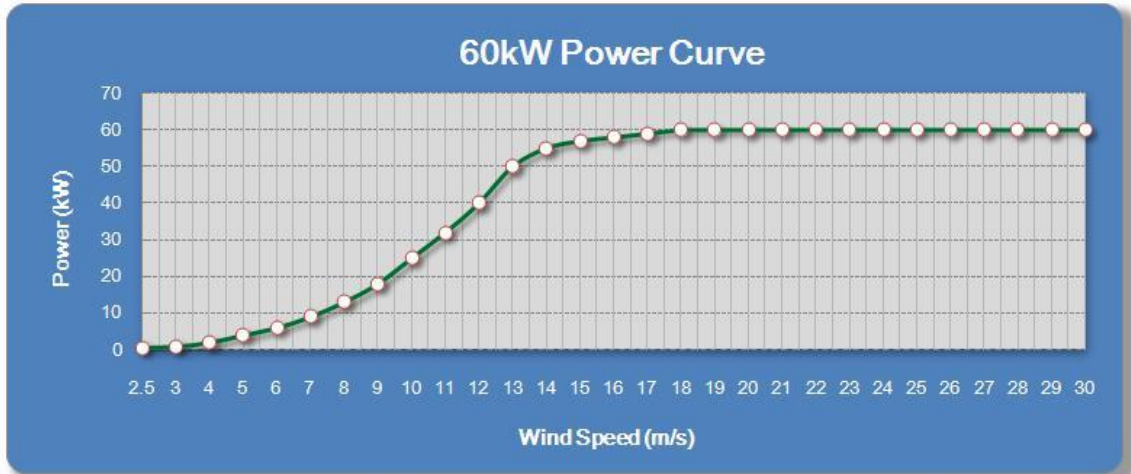
Sunnytek Sweden Glimmervägen 8 187 34 Täby, Sweden
 Sunnytek Burundi Avenue Ndora 3 No 27 Bujumbura, Burundi
 Web sites www.sunnytek.se www.sunnytek.nu



E-Mail sales@sunnytek.se
 E-Mail barnabe@sunnytek.nu
 All Registered companies

60 KW vertical wind mill

Power Curve

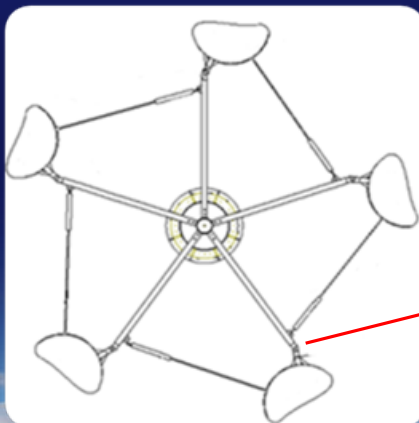


Annual Energy Production

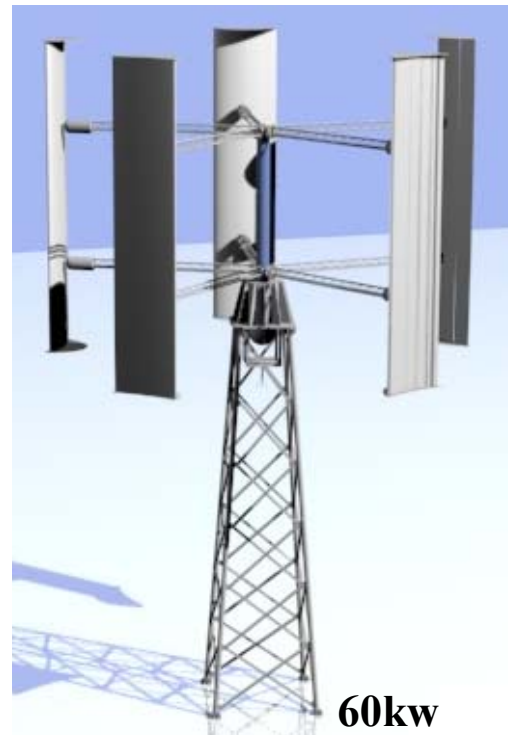
Average Wind Speed(m/s)	2	3	4	5	6	7	8	9	10	11	12	13
Production (kWh)	4396	14032	31340	57137	90135	127056	164331	199084	229232	253493	271388	283117

SAWT is the only company that uses pitching system for over speed regulation in VAWT.

pitch control can increase the working wind range so as to increase system efficiency of the turbine.



60 KW vertical wind mill



High Efficiency

Over-speed Pitch Control System

Mechanical Braking System

High efficiency: SAWT applies exclusively patented technologies that enable our products to achieve the wind-energy conversion ratio at the level of MW horizontal turbines.

Braking System: No other competitors can have automatic mechanical breaking system on VAWT without infringing on our patent.



10kw on grid in a park of USA, 2011



10kw on grid for house in UK, 2009



Sunnytek Sweden
Sunnytek Burundi
Web sites

Glimmervägen 8 187 34 Täby, Sweden
Avenue Ndora 3 No 27 Bujumbura, Burundi
www.sunnytek.se www.sunnytek.nu

E-Mail sales@sunnytek.se
E-Mail barnabe@sunnytek.nu
All Registered companies

60 KW vertical wind mill

Sunnytek Solar Sweden

Page 4/4 2016 06 29

Sunnytek Sweden Glimmervägen 8 187 34 Täby, Sweden
Sunnytek Burundi Avenue Ndora 3 No 27 Bujumbura, Burundi
Web sites www.sunnytek.se www.sunnytek.nu

E-Mail sales@sunnytek.se
E-Mail barnabe@sunnytek.nu
All Registered companies