

VIRA 7,5 K

Wind Turbine Technical Specifications

- *Vira-7,5K-AP (Active Pitch Control)* -



VIRA-7,5K-AP TECHNICAL SPECIFICATIONS

Performance

Turbine Power / Performance : 7.500 W - 8 m/sec.
 The Nominal Power of Wind Speed : 8 m/sn - Active Pitch Control
 Production Beginning of The Wind Speed : 2,8 - 3,5 m/sec.
 Wind Speed Resistance : 50 m/sec.

Rotor

Number of Blades : 3
 Diameter of Blades : 6,2 m (6 - 8)
 Blade Construction : Vacuum Fiberglass Reinforced Epoxy
 Rotor Position : Windward
 Blade Profile : NACA
 Blade Tip Velocity : 30 m/sec. ~
 To Reach Nominal Transfer of Power : 85 Rpm ~ (50 - 140)
 Blade Sweep Area : 30 m2
 Return Control (YAW) : Active - Motor

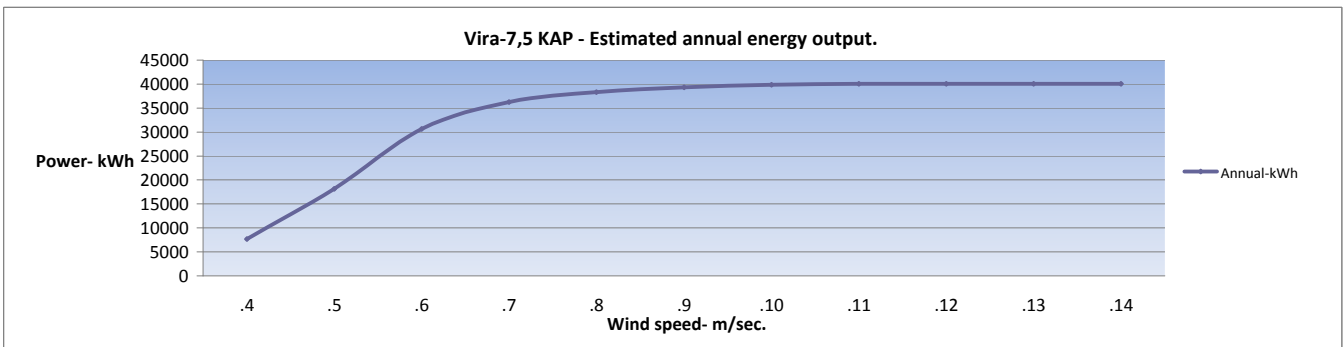
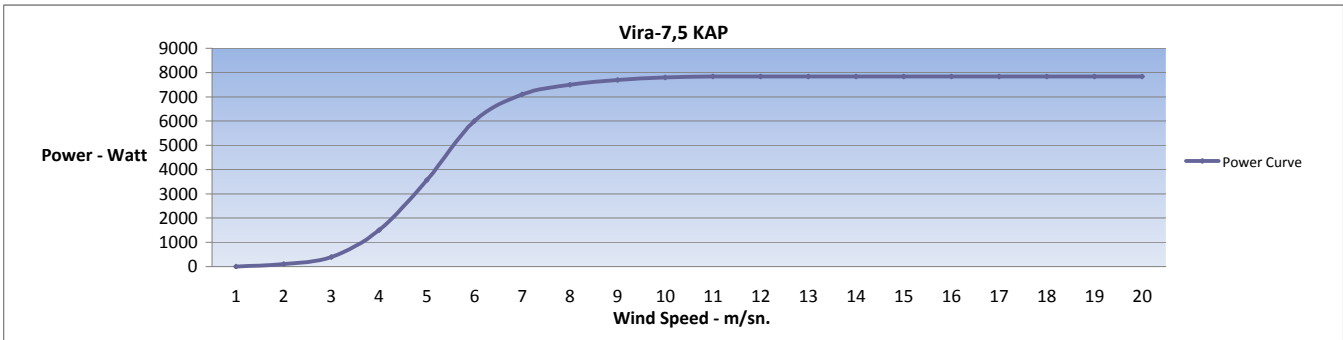
Generator

Generator Type : Synchronous Alternator / Asynchronous alternator
 Output Voltage : 80 - 500 VAC
 Frequency : 20 - 80 Hz

Tower

Tower Type : Stand Alone Cylindrical Steel or Anchorage Cables.
 Tower Height : 15 - 20 - 25 metre
 Foundation : Fiber and/or Steel Reinforced Concrete
 Assembly / Disassembly : Special Lifting Apparatus

Performance : 7.500 W - 8 m/sec.
Operating Temperature : Standard (- 4 / + 122) Fahrenheit / (-22 / + 122) Fahrenheit Optional.
Noise Level : < 60 Decibel - 100 m.
Turbine Weight : 950 Kgs. / 2094 Lbs.
Grid Connection : AC - Inverter - 50 Hz. - 60 Hz. Or, Without Invertor Asynchronous Connection.
Control System : Microprocessor-controlled fully automatic software - minimal user intervention. With single-button control.
Safety : Risk limits can be fully programmed for Anemometer, Blade Speed, Electric Current and Voltage Monitoring.
Grid Connection Options : Capable of working with "Net Metering", Back-Up Battery Systems, Generators & Solar Energy Systems.
Data Recording Option : Optional Working Performance Recording Capability.



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