

VIRA 100 K

Wind Turbine Technical Specifications

- *Vira-100K-AP (Active Pitch Control)*



VIRA-100K-AP TECHNICAL SPECIFICATIONS

Performance

Turbine Power / Performance : 100.000 W - 11 m/sec.
 The nominal power of wind speed : 11 m/sn - Active Pitch Control
 Production beginning of the wind speed : 2,75 m/sec.
 Wind speed resistance : 50 m/sec.

Rotor

Number of blades : 3
 Diameter of blades : 18 m. (18 - 21)
 Blade materials : Vacuum epoxy reinforced steel
 Rotor position : Windward
 Blade profile : NACA
 Blade tip velocity : 52 m/sn ~
 To reach nominal transfer of power : 57 Rpm ~ (40 - 60)
 Blade sweep area : 255 m²
 Return control (YAW) : Active - Motor

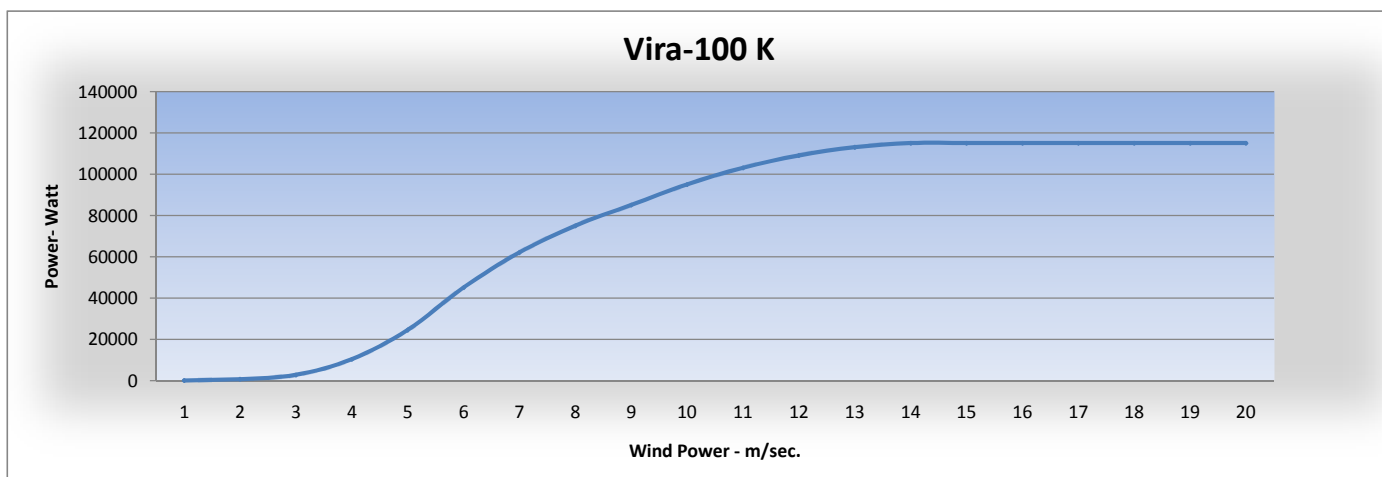
Generator

Generator type : Synchronous Alternator / Asynchronous alternator
 Output voltage : 80 - 500 VAC / 380 VAC
 Frequency : 20 - 70 Hz / 50 Hz

Tower

Tower type : Stand alone cylindrical steel.
 Tower height : 20 - 25 m.
 Foundation : Fiber and/or Steel reinforced concrete (120 m³)
 Assembly / Disassembly : Special lifting apparatus

Performance	:	100.000 W - 11 m/sec.
Operating Temperature	:	Standard (- 4 / + 122) Fahrenheit / (-22 / + 122) Fahrenheit optional.
Noise Level	:	< 70 Decibel - 100 m
Turbine Weight	:	5200 Kgs. / 11464 Lbs.
Grid Connection	:	AC - Inverter - 50 Hz. - 60 Hz. Or, Without inverter 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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