

VIRA 20 K

Wind Turbine Technical Specifications

Vira-20K-SPA (Fix Pitch / Adjustable)



VIRA-20K-SPA TECHNICAL SPECIFICATIONS

Performance

Turbine Power / Performance : 20.000 W - 11 m/sec.
 The nominal power of wind speed : 11 m/sn - Fix pitch-YAW Control
 Production beginning of the wind speed : 2,8 - 3,5 m/sec.
 Wind speed resistance : 50 m/sn.

Rotor

Number of blades : 3
 Diameter of blades : 9,6 m (8 - 11)
 Blade materials : Vacuum epoxy reinforced steel
 Rotor position : Windward
 Blade profile : NACA
 Blade tip velocity : 55 m/sec. ~
 To reach nominal transfer of power : 107 Rpm ~ (40 - 120)
 Blade sweep area : 72 m²
 Return control (YAV) : Active - Motor

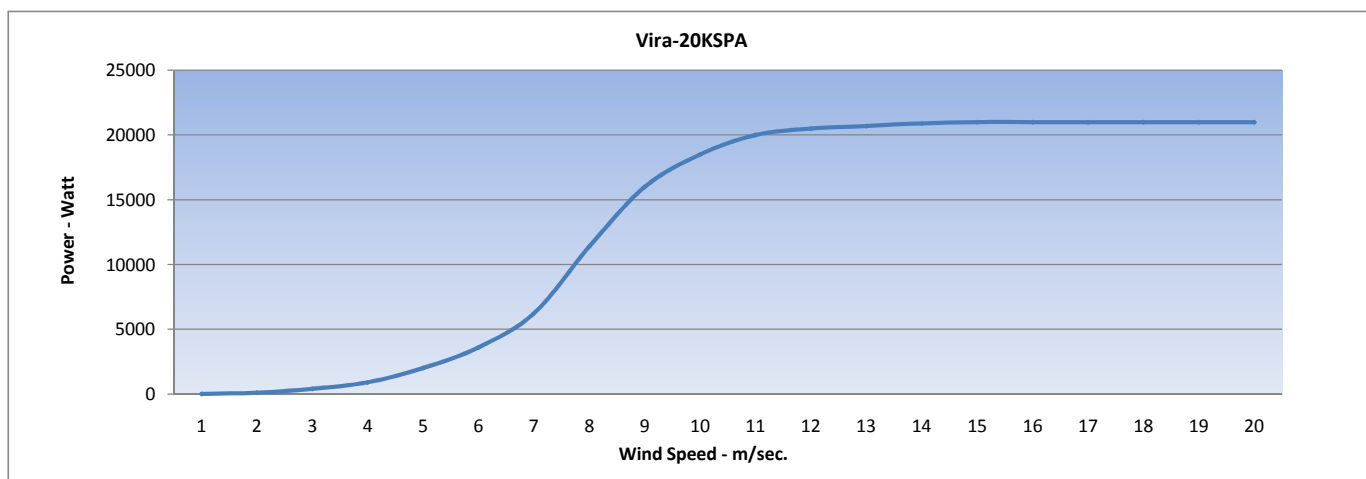
Generator

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	: 20.000 W - 11 m/sec.
Operating Temperature	: Standard (- 4 / + 122) Fahrenheit / (-22 / + 122) Fahrenheit Optional.
Noise Level	: < 60 Decibel - 100 m
Turbine Weight	: 1130 Kgs. / 2491 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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