

VIRA 10 K

Wind Turbine Technical Specifications

Vira-10K-SPA (Fix Pitch / Adjustable)



VIRA-10K-SPA TECHNICAL SPECIFICATIONS

Performance

Turbine Power / Performance	:	10.000 W - 9 m/sec.
The nominal power of wind speed	:	9 m/sn - Fix pitch-YAW Control
Production beginning of the wind speed	:	2,8 - 3,2 m/sn.
Wind speed resistance	:	50 m/sec.

Rotor

Number of blades	:	3
Diameter of blades	:	7,6 m (7 - 9)
Blade materials	:	Vacuum epoxy reinforced steel
Rotor position	:	Windward
Blade profile	:	NACA
Blade tip velocity	:	48 m/sec. ~
To reach nominal transfer of power	:	90 - Rpm ~ (90 - 160)
Blade sweep area	:	46 m2 min.
Return control (YAV)	:	Active - Motor

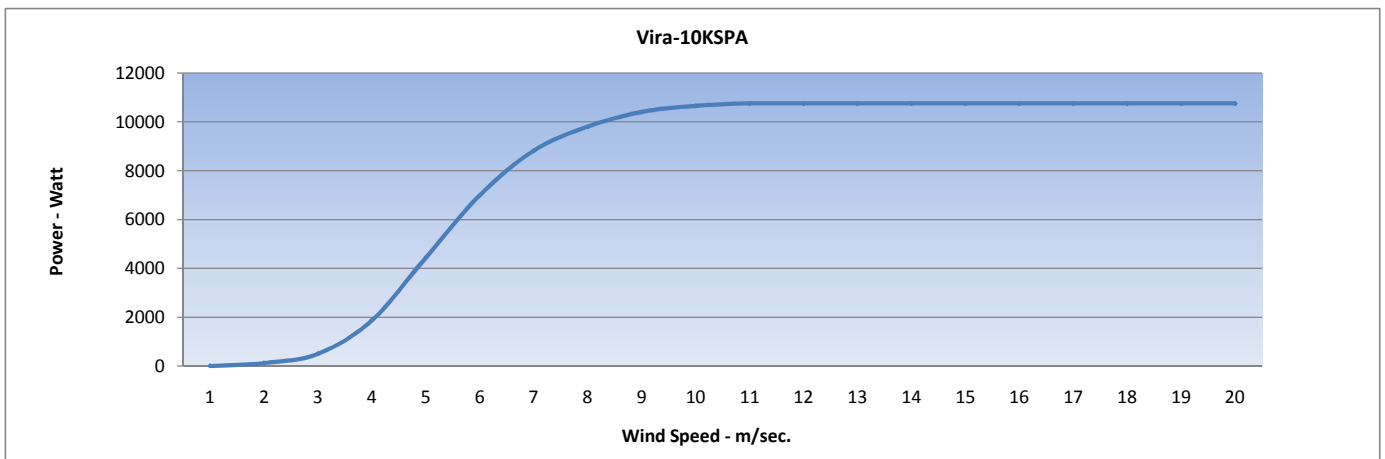
Generator

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	:	10.000 W - 9 m/sec.
Operating Temperature	:	Standard (- 4 / + 122) Fahrenheit / (-22 / + 122) Fahrenheit optional.
Noise Level	:	< 60 Decibel - 100 m.
Turbine Weight	:	985 Kgs. / 2172 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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