

VIRA 250 K

Wind Turbine Technical Specifications

- *Vira-250K-AP (Active Pitch Control)*



VIRA-250K-AP TECHNICAL SPECIFICATIONS

Performance

Turbine Power / Performance	: 250.000 W - 12 m/sec.
The Nominal Power of Wind Speed	: 12 m/sn - Active pitch control
Production Beginning of The Wind Speed	: 2,9 - 3,5 m/sec.
Wind Speed Resistance	: 50 m/sec.

Rotor

Number of Blades	: 3
Diameter of Blades	: 26 m. (26 - 32)
Blade Construction	: Vacuum epoxy reinforced steel
Rotor Position	: Windward
Blade Profile	: NACA
Blade Tip Velocity	: 61 m/sec. ~
To Reach Nominal Transfer of Power	: 40 Rpm ~ (40 - 50)
Blade Sweep Area	: 600 m ² ~
Return Control (YAV)	: Active - Motor

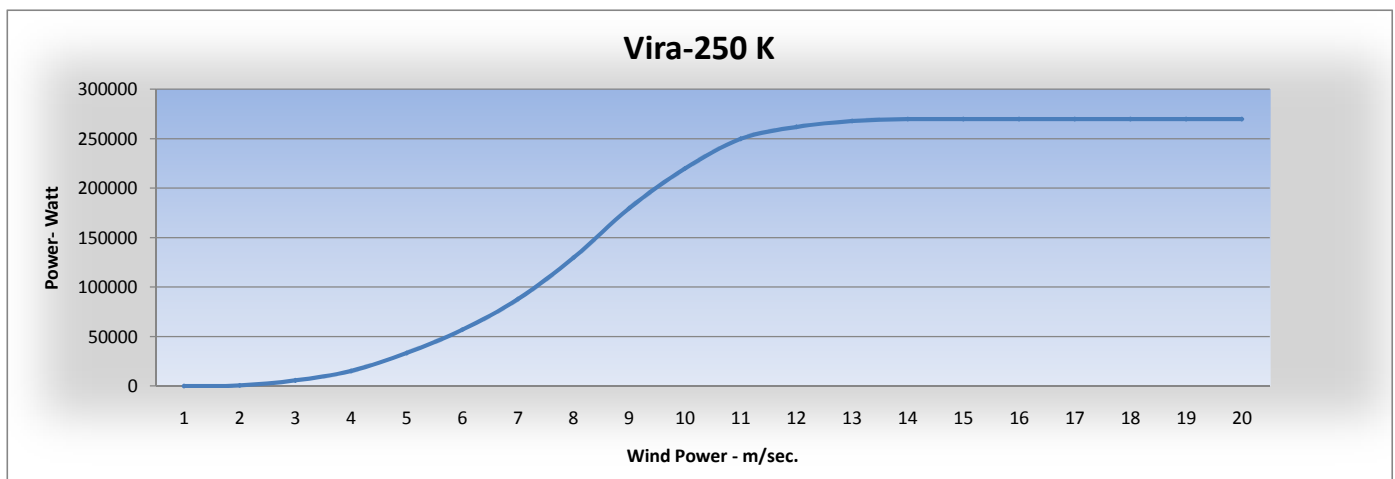
Generator

Generator Type	: Asynchronous alternator
Output Voltage	: 80 - 500 VAC / 380 VAC
Frequency	: 20 - 70 Hz / 50 Hz

Tower

Tower Type	: Stand alone cylindrical steel.
Tower Height	: 35 - 40 m.
Foundation	: Fiber and/or Steel reinforced concrete (600 m ³)
Assembly / Disassembly	: Special lifting apparatus

Performance	: 250.000 W - 12 m/sec.
Operating Temperature	: Standard (- 4 / + 122) Fahrenheit / (- 22 / + 122) Fahrenheit Optional.
Noise Level	: < 70 Decibel - 100 m
Turbine Weight	: 12890 Kgs. / 28417 Lbs.
Grid Connection	: AC - 50 Hz. - 60 Hz. 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.



Northel-USA LLC 5772 Bear Hollow Rd. SE - Newark, Ohio 43056-9464 USA

Office Phone : 001-740-763-0027 / GSM 001-740- 973-0309

www.northelenergy.com

info@northelenergy.com