

VIRA 75 K

Wind Turbine Technical Specifications

- *Vira-75K-AP (Active Pitch Control)*



VIRA-75K-AP TECHNICAL SPECIFICATIONS

Performance

Turbine Power / Performance	: 75.000 W - 12 m/sec.
The nominal power of wind speed	: 9 m/sn - Active Pitch Control
Production beginning of the wind speed	: 2,9 - 3,5 m/sec.
Wind speed resistance	: 50 m/sn.

Rotor

Number of blades	: 3
Diameter of blades	: 16 m (16 - 16,8)
Blade materials	: Vacuum epoxy reinforced steel
Rotor position	: Windward
Blade profile	: NACA
Blade tip velocity	: 52 m/sec. ~
To reach nominal transfer of power	: 55 Rpm ~ (45 - 65)
Blade sweep area	: 200 m ²
Return control (YAV)	: Active - Motor

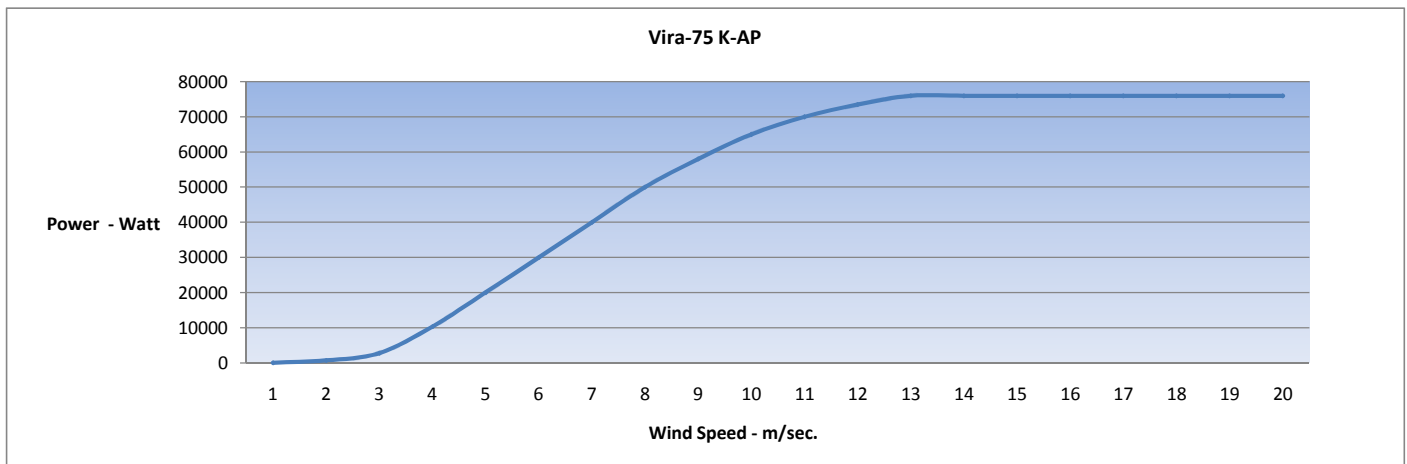
Generator

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 metre.
Foundation	: Fiber and/or Steel reinforced concrete (110 m ³)
Assembly / Disassembly	: Special lifting apparatus

Performance	: 50.000 W - 10 m/sec.
Operating Temperature	: Standard (- 4 / + 122) Fahrenheit / (-22 / + 122) Fahrenheit optional.
Noise Level	: < 70 Decibel - 100 m
Turbine Weight	: 4987 Kgs. / 10994 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.



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