



V17 Wind Turbine – Technical Specification

OVERVIEW

A 75kW medium sized wind turbine suitable for powering larger farms, community projects and commercial properties.

PERFORMANCE

The energy capture of the Vestas V17 turbine is exceptionally good across a wide range of wind speeds and comes installed on a 23m freestanding tower for maximum energy capture.

RELIABILITY

The Vestas V17 turbine is intended for a range of harsh conditions, especially exposed locations. The remaining design life of these machines is in excess of 20 years.

TECHNICAL SPECIFICATION

Generator Rating	75kW @ 15 m/s
Rotor Speed	45 rpm nominal
Cut-in Wind Speed	3.5 m/s
Survival wind speed	55 m/s
Rotor diameter	17m
Rotor orientation	Upwind
Number of blades	3
Blade material	Fibreglass/polyester
Control system	Pitch controlled
Gearbox	Yes
Brakes	Disc
Generator	Synchronous
Yaw control	Powered
Tower height	23m
Tower	Free standing



PERFORMANCE

At a particular location, the wind speed will vary about an annual mean value. The expected energy yields for the Vestas V17 at various annual wind speeds (AMWS) is shown below:

MWS m/s	Annual MWh	Daily kWh
4	55	151
5	102	281
6	156	427
7	210	576
8	261	716
9	307	842

Note: The annual electricity consumption of a medium size home is in the region of 4-6MWh or 11-16 kWh per day. At 6 m/s wind speed the Vestas V17 can provide the annual energy needs of 35 homes.

Α





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Halus Power Systems are the USA's leading supplier of remanufactured wind turbines, specialising in turbines originally produced by Vestas. They have been manufacturing turbines for 10 years at there 5 acre facility in San Leandro, California. All turbines comes with a standard 5 year parts warranty and an expected life of 20yrs+

Wind Turbine Controller – All turbines come with a new advanced controller. Some of the features of our controllers are:

- Advanced soft-start motor control with user definable thyristor trigger angle and cut in slope
- Automatic motor start
- Power factor control including user definable delay for capacitor connection and capacitor discharging time
- Web-based TCP/IP control and monitoring system which can also be used on site
- Top box for ease of maintenance and service



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Last Error: Motorstart timeout [0102] Controller Version: Vestas V17 ver 3.01		1021	Voltage S		276.80		V
Software Versio			Voltage T		274.90		V
			Current R			48.10	A
Commands		Current S		46.70		A	
	and becaused		Current T			43.90	A
Stop	Set Reset start	Set	Power R		14.10		kW
Reset alarms	Set Toggle mode	Set	Power S Power T		14.60 14.80		KW
Motor start	Set Yaw left	Set					kW
Yaw right	Set Reset errorlist	Set	Total Power		43.50		kW
Reset counter	Set Reset peak	Set	Total Power	(10 Min. Avg.)		40.20	kW
Capture Data	Set		Total Peak F	ower		63.80	kW
		Grid Frequency		60.22		Hz	
		Wind Speed			8.80	m/s	
		Wind Speed (10 Min. Avg.)			8.80	m/s	
		Peak Wind	Speed		11.60	m/s	
		Generator 1			1487.10	RPM	
		Generator 2		1209.10		RPM	
			Rotor			47.60	RPM
			Temperatur	e 1		-1.60	С
			Temperatur	e 2		122.80	C



Experts in Wind Power & Planning

Wind Pioneer is committed to the production of clean affordable energy with these remanufactured and upgraded wind turbines.

Wind Pioneer is the exclusive distributor and installer for the Vestas V17 turbine, remanufactured by Halus Power Systems, which is the most efficient and cost effective in its class. The Vestas V17 wind turbine generates exceptional levels of power for its size, but is remarkably quiet.

Wind Pioneer can supply, install and support the Vestas V17 turbine to help power semirural domestic properties and many more applications.

Wind Pioneer works in partnership with site owners, financiers, suppliers and other stakeholders to guide projects through the process and beyond.

Wind Pioneer also sells a range of larger turbines for less power hungry applications.

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