

TECHNICAL PROFILE

Whith a mean wind speed situated in a rated of 10 - 12 m/s. The model is capable of generate more than 70 kwh/dia.

TECHNICAL FEATURES, ELECTRICAL AND OPERATIONAL

Number of Blades	3
Propellers Material	Fiberglass epoxy resins and polyurethane core
Generator	250 RPM 24 poles neodymium magnets
Power	5500 W
Rated power curve	4000 W
Voltage	24 / 48 / 220
Wind class	IEC / NVN I - A
Diameter	4,3 m
Turning sense	Clockwise
Swept area	14,5 m ²
Weight	165Kg
Applications	Isolated connections Batteries, electric grid connection
Wind to start	1,8 m/s
Rated speed	12 m/s
Speed regulation of pitch	13 m/s
Speed suported	More of 60 m/s
Efficient generation range	2 to more than 60 m/s
Туре	Upwind Horizontal Rotor
Orientation	Rudder passive guidance system
Power control	Passive system variable pitch, centrifugal
Transmission	Direct
Brake	Electrical
Controller	Optional grid connection and battery charging
Inverter	Efficiency 95%; MPPT algorithm
Noise	Minimized: due to the design of the blades and low revolutions. DB 1% more that the ambient noise of the wind.
Anti corrosive protection	Fully sealed design, with elements of metal cataphoresis, epoxy paint for saline envoirements of hight humidity.
Tower	12, 15 y 18 m, folding, guyed or lattice

OPTIMAL PRODUCTION EVEN MORE THAN 165 km/h



ANNUAL PRODUCTION



PASSIVE VARIABLE PITCH	Patented technology It's a mechanical syst wheel, it modified th in each case the max- its rotor RPM. Thanks to him we go • Less noise • More ability • More consis • More energ	y to maximize the energy tem that thanks to the generation of a inertia he aerodynamic vector of the blades to obtained kimum energy of the same and never exceeds ot: y to absorb high winds stency in the generation y with less wind		70 Wind Turbine TECHNICAL PROFILE
ELECTRONIC CONTROL	System of intelligen Batteries Connectio 7 types of progra Charging shunt r excess can't char	it energy management n: ammable batteries (Lithium, Lead, gel, etc.) resistor pulses if overload. Only derives the rge, for protect the batteries.		
	On Grid Connection Throught the MF wind power curv Compatible with and American sy	n: PPT inventors, which are programmed with ve that maximizes energy all times. triphasic grids, monophasic and European stems.		4,3 m
A NEW DESIGN, A NEW ENERGY Mhen you apply the latest technology in design, the latest simulation technology, the best materials in the market and combine it with mor than 40 years of experience, the result is. the Dest Wind Turbine of the market				3,4 m Minimum Noise The noise is around 1% above ambient noise, being practically invaluable to our ears.
				Maximum Efficiency It works with a simple breeze of 2m/s and continue running at more than 40m/s without losing afficientry in productivity
A PMG with more power otor fully integrated in t with improved profiles of that less wind, be more e	full magnets and a he magnetic sheet, f the blades make fficient.	The whole dessign has been developed, based a center of gravity positioned in the center of mass for balance the tension and improve the loads.	'n	Anticorrosive It trated with cataphoresis, becomes a overall, anticorrosive and perfect for saline in islands and coasts.
P		×		Hermetic Hermetically sealed in all its together, to avoid leaks microparticles humidity and dragging in air. Prevents damage to coast areas or ther is a lot of desert zones
MORE SEC By incorporating new ma and integration of the ep steel, the safety factors in Fs=9.	URITY aterials like carbon poxy resins with pcrease reaching	MORE ENERGY Joining all the improvements and applyin the computational fluid dynamics do we improve a 15% the energy production.	ng දිරිදි	Robust To withstand strong winds and offer a long operating life all equipment parts, are oversized.
		STANA STANA		ATION PROCESS