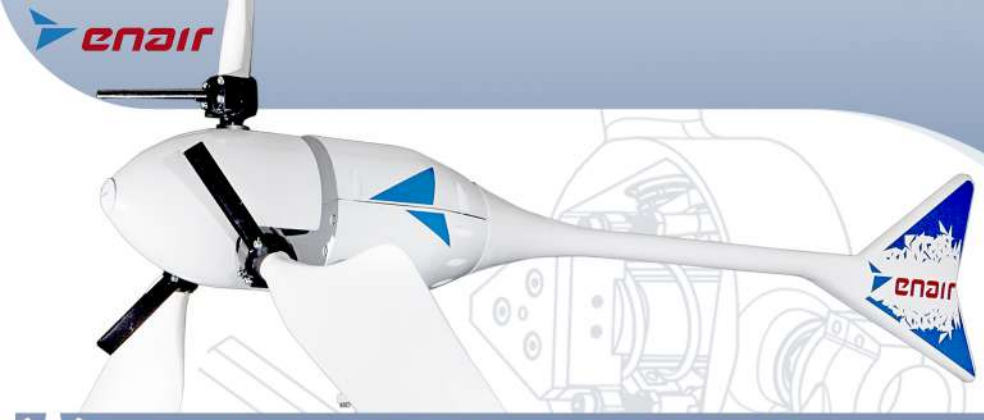


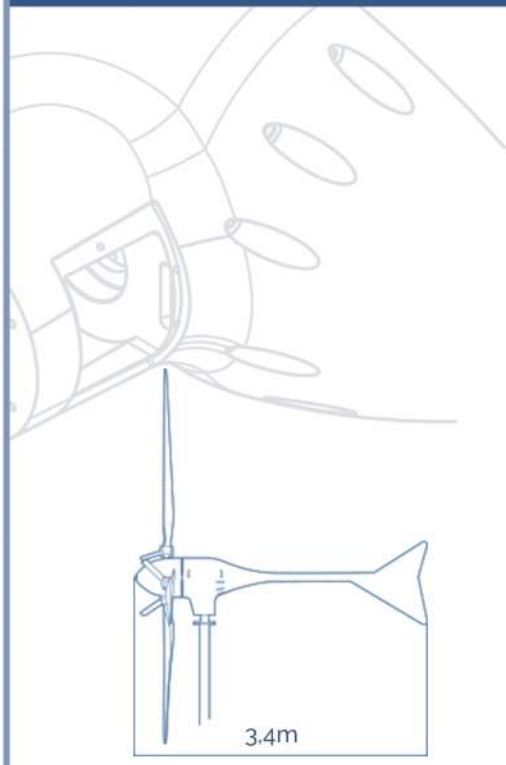
E70PRO

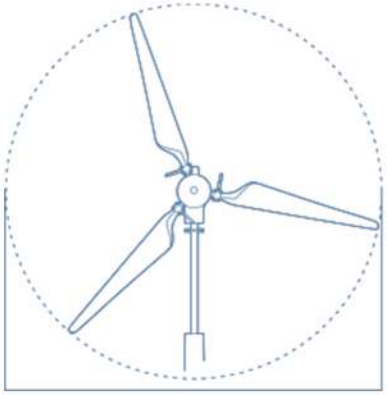
DATA SHEET

With average wind speed of 11m/s the model Enair 70PRO is capable of generating more than 70kWh/day

TECHNICAL, ELECTRICAL AND OPERATIONAL FEATURES

Number of Blades	3
Blades material	Fibreglass resins and polyurethane core
Generator	250rated rpm | neodymium magnets
Power	5500W
Rated powe curve	4000W (acording to IEC 61400-2)
Voltage	24/48/220V
Wind class	CLASS I-IEC 61400-2/NVNI-A
Diameter	4.30m
Turning sense	Clockwise
Swept area	14.5m²
Weight	165kg
Applications	Charging 24 or 48V batteries and grid connection
Wind to start	2m/s
Rated speed	11m/s
Speed regulation of pitch	12m/s
Survival speed	60m/s
Efficient generation range	From 2 to 60m/s
Type	Upwind horizontal rotor
Orientation	Variable passive centrifugal pitch system with 2 speeds
Power control	Sistema de paso variable pasivo centrifugo con dos vel.
Transmision	Direct
Brake	- Electromagnetic by short circuit - Mechanical (optional) - Aerodynamic through the pitch control - Manual or automatic tru wind or battery voltage
Controller	Grid connection and battery charging
Inverter	Eficiency 97%, MPPT algorithm
Noise	48dB | Reduction to a minimum, due to the design of the blades and the low revolutions, 1% more than ambient wind noise
Anti corrosive protection	Airtight, hight-temperature bake-drying epoxy painting, generating a plastic coating
Tower	Lattice, clip, tubular. Variable height axles can be folded





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E30PRO Wind Turbine
DATA SHEET

PASSIVE VARIABLE PITCH

Patented technology to maximize energy production. It is a mechanical system due to what the blades angle of attack of the blades is modied to obtain the maximum energy in each case and never exceeds its rotor rpms.

It archieves:
- Less noise
- More ability to absorb high winds
- More consistency in the generation
- More energy with less wind

ELECTRONIC CONTROL

System of intelligent energy management

Batteries connection::
7 types of programmable batteries (lithium, lead, gel, etc.)
Charging shunt resistor pulses if overload. The excess which can't be charged is derived to protect the batteries

Grid connection:
Throught the MPPT inverters, which are programmed by the wind power curve that maximises energy production. Compatible with triphasic grids, monophasic and European and American systems

MORE ENERGY

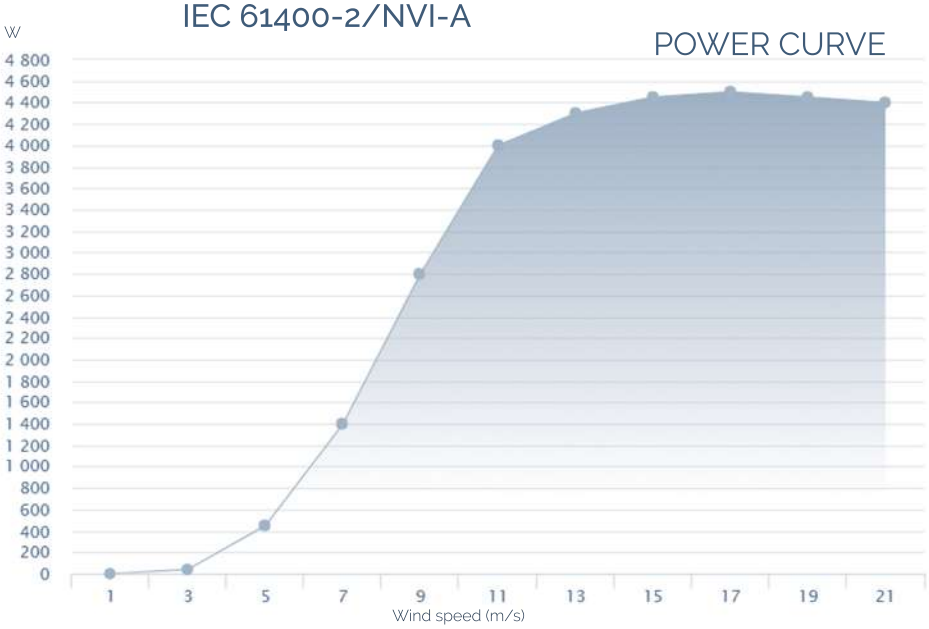
MORE EFFICIENTCY

MORE STURDINESS

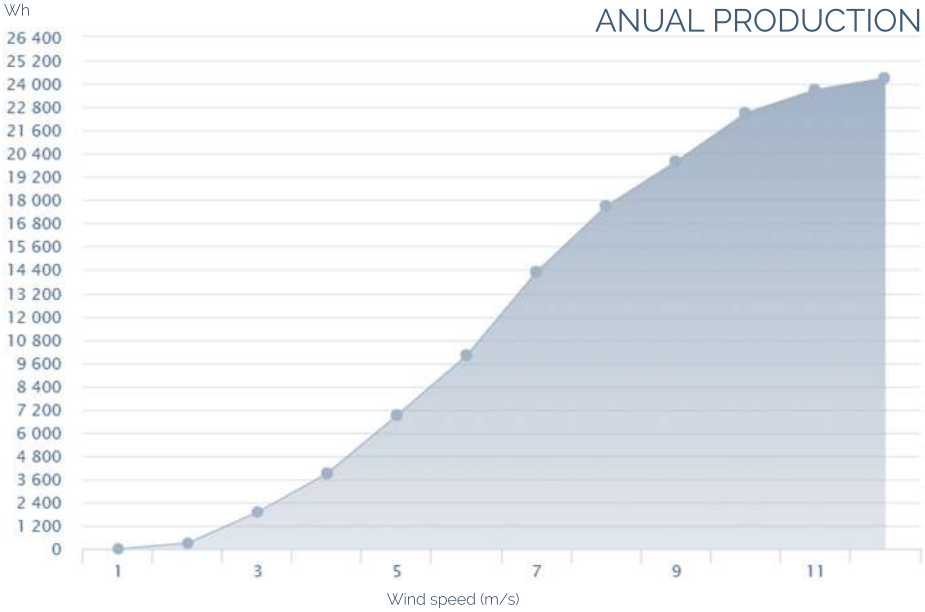
MORE SECURITY

CLASS I WIND TURBINE
IEC 61400-2/NVI-A

POWER CURVE



ANUAL PRODUCTION



Minimum noise
The noise is around 1% above ambient noise, being invaluable to our ears

Safety-Brake
New mechanical safety system to the axle that guarantees braking under the most adverse conditions, for winds even greater then 70m/s

Anticorrosive
Epoxy painting, which becomes an covering anticorrosive and perfect for salt on islands and coasts

Anti-Icing and Hermetic
Structural resin acrylic urethane with an anti-ice chemical composition and maximum resistance for temperatures up to -50 ° C. Hermetically sealed

Storm-detection
Intelligent storm detection algorithm and safety lock of the fully automatic wind turbine combined with the Safety-Brake

Remote-Control
Combined control with the Victron Venus that allows the wind turbine to run/stop remotely

BBS (Battery Brake System)
Intelligent system that measures the level of battery charge and allows the wind turbine to stop when the battery reaches the setpoint voltage, resuming when the load level drops

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