

TECHNICAL SPECIFICATIONS

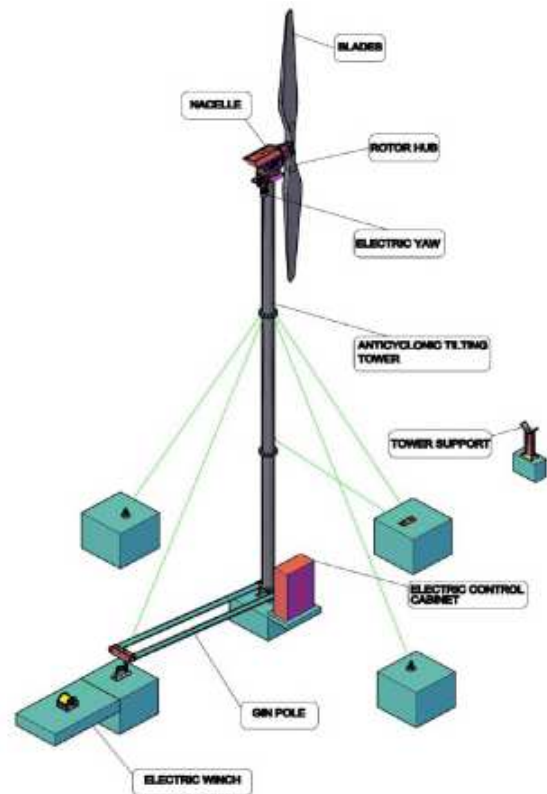
Turbine type: SN 25 kW
European Technology

General:

Rated Power: 25 kW
Rated Wind Speed: 10 m/s
Cut-in Wind Speed: 2.5 m/s
Cut-out Wind Speed: 25 m/s
Survival: 59.5 m/s
Operative temperatures: -40°C to +40°C

Rotor:

Rotor diameter: 11.7 m
Swept Area: 108.4 m²
Aerofoil: NACA 63_XXX
Number of Blade: 2
Blade Length: 5.6 m
Blade material: Epoxy/fiberglass composite
Lightning protection: Blade integrated
Type of Hub: Fixed pitch
Hub material: Steel Structure
Conservation: Metallization, paint



Tilt-tower (optional)



Nacelle

Frame: Steel structure
Conservation: Metallization
Weight: 1900Kg
Housing: Fiberglass
Personalized housing-paint: Optional

Generator:

Type: 25 kW Permanent-magnet synchronous
Output frequency: 50Hz/60Hz
Generator speed: Variable, up to 108RPM
Nominal voltages: 380V, 3-phase/480V, 600V, 3-phase

Tower:

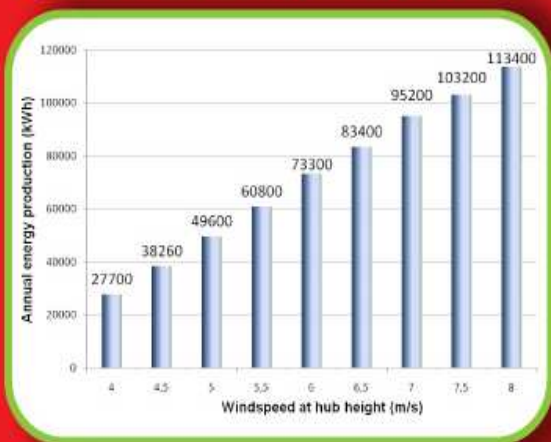
Type: Guyed tilt-tower/monopole tower
Construction: Sectional built-up
Material: Welded steel
Conservation: Galvanization, paint
Weight: 2400 Kg (24m)
Electric winch (optional)

PERFORMANCE

POWER CURVE



ANNUAL ENERGY PRODUCTION



(yearly energy production depends on site conditions)

Brake:

- Primary braking system: Electric dump-load
- Secondary braking system (emergency): Pneumatic disk brake

Turbine Controls:

- Supervision and grid monitoring by means of ABB industrial converter/inverter unit
- Terminal (touch screen) for automatic and manual control
- Energy production meter (optional)

Maintenance:

- Low maintenance
- Low maintenance activities at 1.6 m above ground level (tilt-tower)

Environment:

- CO₂ emissions saving/@ 6m/s :66 TON/year
- Environmentally friendly paint
- Silent

Applications:

- Remote areas
- Grid-connected (Win Diesel, Wind PV+Battery)

Standards:

- Designed to IEC 61400-2, wind class II, UL 1741 & IEEE 1547



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