



**ROTOR**

Diameter	4m (13.12 ft)
No. of blades	4
Nominal RPM	100 1/min
Arrangement	airside
Type of rotor blades	PVC
Design of the rotor hub	steel

**DRIVE POWER TRAIN**

Gear type	3 or 4-stage chain transmission $i=23.56$ or $i=67.53$
Generator type	12V DC Generator *)
Generator rated power	1.25 kW
Generator RPM	1200 – 6000 1/min
Generator rated voltage	12 V

**PERFORMANCE CHARACTERISTICS**

Rated power	2.5 KW
Switch-on wind speed	10 m/s (22.4 mph)
Rated wind speed	12 m/s (26.8 mph)
Switch-off wind speed	NONE (Needs to be turned off manually)
Speed of survival	~20 m/s (Needs to be turned off manually)

**CONTROL SYSTEM**

Aerodynamic Power Control	Stall
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**WIND DIRECTON TRACKING**      Wind vane

**SAFETY SYSTEMS**

Aerodynamic	Stall
Mechanically	Disc brake

**DIMENSIONS**      60 x 41 x 26 cm (Generator and Gearbox)

**WEIGHT**      ~100 Kg (220 lb) (Generator and Rotor)

**TOWER**      12 m (39.37 ft) pivoting mast

\*) 2 generators can be installed simultaneously with a total power of 2.5 kW.