



altm
energy - naturally

Harnessing wind power with the latest technology

Powering progress with wind energy

Altem Power Limited, an ISO certified company designs, manufactures, markets and erects world class CE certified Wind Energy Systems which are a perfect power source for Telecom towers, Rural electrification, Farm houses,

Industrial units, Hilly areas and Railways.

Access to the latest technologies from leading European manufacturers gives Altem Wind Turbines a robustness that's unsurpassed.

The Altem range comprises 9kW, 15kW, 25kW, 50kW and 400kW Wind Turbines.

Technical Parameters*

Rated Power (KW)	9 / 10	15	25	50
Rated Wind speed (m/sec)	11	11	11	11
Number of Blades	3	3	2 / 3	3
Rotor dia (Met)	7.5	9.5	12	18
Swept area (Sq met)	38	64	108	216
Blade material	Epoxy/Glass Fiber	Epoxy/Glass Fiber	Epoxy/Glass Fiber	Epoxy/Glass Fiber
Blade weight (approx) (KGs)	40	60	100	122
Type of Generator	Permanent Magnet	Permanent Magnet	Permanent Magnet	Permanent Magnet
Transmission	Drive direct	Direct drive	Direct drive	Geared/Direct drive
Tower	Fixed/Tilting Tower	Fixed/Tilting Tower	Fixed/Tilting Tower	Fixed
Type of Hub	Fixed pitch	Fixed pitch	Fixed pitch	Fixed pitch
Rotor speed at rated wind speed (rpm)	150	100	108	70
Cut-in wind speed (m/sec)	2.5	2.5	3	3
Cut-off wind speed (m/sec)	25	25	25	25
Control system	PLC based	PLC based	PLC based	PLC based
Approx Nacelle weight (KGs)	700	1000	1400	2000
Annual Energy output KWH (@ 6m/s)	30,660	45,990	76,880	1,52,424

* Specifications are subject to change without notice due to continuous R & D

The making of a superior Altem Wind Turbine

Design Can also be used in conjunction with diesel units without modifications ■ "Utility standard" wind turbine ■ Designed and engineered by professionals ■ All components designed for a service life of at least 20 years

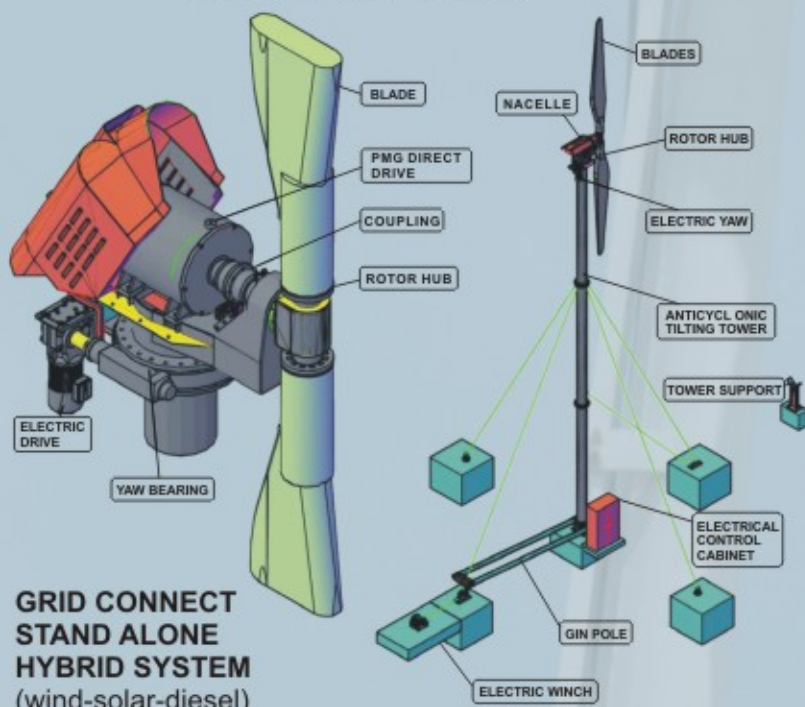
Safety Independent over- speed trips to activate the backup safety system through Electrical brake. Disc Brakes can also be supplied on request

Electrical Utility standard electrical system ■ Specially designed soft start for smooth start-up

Control Specially designed PLC unit with proven software ■ Optional remote control and monitoring via modem link

Maintenance Enclosed tower for safe and comfortable maintenance in any weather. Can supply various types of Towers

Altem Wind Turbine*



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ISO Certified Company

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* Actual product may differ from this picture