

Whisper -500 Wind Turbine Specification



General Configuration	Model	Whisper 500
	Rotation Axis	Horizontal
	Orientation	Up Wind
	Rotation Direction	Clockwise looking upwind
	Number of Blades	2
	Material of blades	Glass fiber with carbon fiber composite resin bonded.
	Material of rotor shaft material for W500	SS 304
	Rotor Diameter	4.50 M
	Body/housing	MS duly marine primer & powder coated
	Mount	5 inches
	Weight	Not more than 70 kg +/- 10%
	Certification	ISO9001-2008, CE Certified
Marine Treatment for tropical & marine atmosphere	Certificate for salt spray test as per ASTM B-117	
Performance	Peak Electrical power (watts)	3200 watts peak
	1 min max average power output	IEC 61400 test is under progress at CWET
	Rated/Voltage	LV model 24volts/36volts/48volts DC HV model 120volts/240volts DC
	Rated wind speed	12 m/s
	Startup/Cut in wind speed	3.1 m/s
	Cut out wind speed	14 m/s to 16 m/s
	Survival wind speed	55 m/s
Rotor	Swept area	15.9 meter square
	Rotational speed	700 - 800 rpm
	Blade pitch	Fixed
	Direction of rotation	Clockwise
	Over speed control	Side furling & dump load. Emergency electromagnetic braking through controller. Manual stopping by brake switch installed on turbine tower base.
Yaw System	Wind direction sensor	By tail fin & tail boom
	Yaw control	Free/Passive yaw