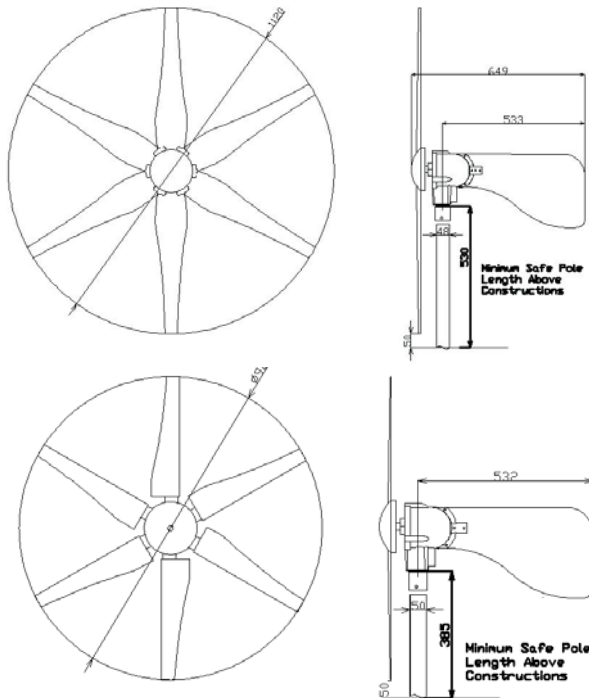


Features

1. The alternator is specifically designed for small wind turbines, with a very low cogging for easier starting in low winds.
2. No commutator brushes to wear out or cause electrical noise.
3. Glass reinforced polypropylene blades for high strength and fatigue resistance.
4. Aerodynamically optimized blades for good all round performance and low wind start up.
5. Very light, compact and robust. Less than 8.5Kg (MW200), easy to install and virtually maintenance free.
6. Up to date materials for high strength and corrosion resistance, ideal even for marine and desert situations.



www.macro-wind.com



MW-200 and **MW-400** are small wind turbines designed and manufactured by **MacroWind** to provide a quiet, affordable and reliable power source for battery charging.

Every part of the **MW wind turbine** is specially designed for simple installation, low start up wind speeds, high efficiency and smooth running. The small size of the unit when packed combined with low weight facilitates shipping.



Application:

1. Boats, RV's and static caravans, etc.
2. Remote cabins, sheds and buildings.
3. Street lamps and signs.
4. Small renewable 'pilot' projects for houses.
5. Electric gate openers, electric fences and security systems.



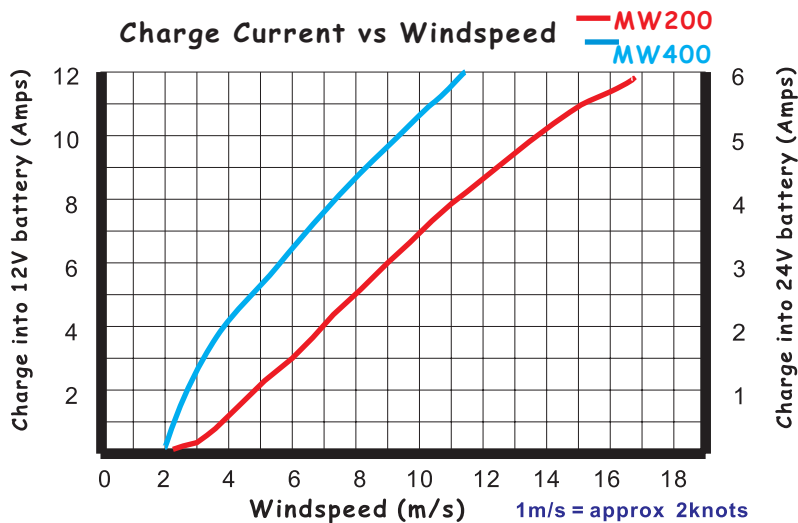
Technical Specifications:

	MW-200	MW-400
Start-up Wind Speed:	2.1 M/s	2.1 M/s
Power Rating:	150W	250W at 12.5 M/s
Voltage Output:	12 / 24 VDC	12 / 24 VDC
Max Power Output:	200W	400W
Turbine Diameter:	0.92 M	1.12 M
Blade(6) Material:	Glass-Fibre Reinforced	
Body Material:	Die Cast Aluminium	
Survival Wind Speed:	35 M/s (126KM/ Hour)	
Mount tower Kit:	51 mm OD Pipe	
Net Weight:	8.5 Kg	10.5 Kg
Shipping Dimensions:	47 X 41 X 22 cm	55 X 41 X 22 cm
Warranty:	1 Years Limited Warranty	



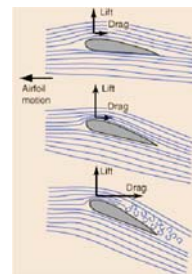
Running

1. Charges at Low Windspeed.
2. Charges Batteries from Flat.
3. Charging levels do not diminish appreciably as battery voltage increases.
4. Smooth and quiet running.
5. Easy to maintain, Simple to service.
6. Sleek, Tough and Elegant.
7. Totally Sealed for Long Life.



Blades

1. Multi-blade turbine for easy start up.
2. Glass-fibre reinforced polypropylene gives high strength & excellent fatigue resistance.
3. Accurately Balanced.
4. Aerodynamic curve.
5. UV resistant.



Blades of MW-200



Blades of MW-400



Alternator

1. Direct drive permanent magnet alternator with internal AC-DC rectifiers.
2. No commutator brushes to wear out or give electrical noise.
3. Built to survive Extreme Weather Conditions.
4. Low cogging design makes for easy start-up.
5. Strong magnets for higher power output.
6. Low RPM, design for wind power applications..



NdFeB Magnets

Main Body & Hub

1. Made from die cast aluminum.
2. Reinforced at important locations.
3. Surface oxidization processing.
4. Salt mist corrosion resistant, IP 65 qualified.



Electrometic protection

1. Open circuit protected.
2. Short circuit protected. (Easy!)
3. Reverse battery connection protected.
4. High wind protected.
5. Battery overcharge protection when used with a wind or solar charge controller.

