

Zhelev Commerce EOOD
12 Gen. Skobelev Str.
6100 Kazanlak
Bulgaria
e-mail: energyflow.org@gmail.com
tel: +359 431 637 00
GSM: +359 887 26 28 27, +359 885 74 44 50



Energy Flow 9 Blade Wind Turbine

Features the superior quality and performance of Energy Flow - with our original Generation 4 carbon fiber blades!

Our Energy Flow Wind Turbines are hot dipped galvanized with zinc plated hubs!

Will not rust

No need for painting or special coating for up to 50 years under normal conditions



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Low wind speed rated wind turbine for home, business, or remote use with the Permanent Magnet Generator (PMG) - 1600 Watts plus potential power!
Generation 4 carbon fiber blades self regulate their speed in high winds (**also available in 5 and 7 blade models**).

Our newest innovation in power generation!

Permanent Magnet Generator (PMG) - This is our highest amp model - Up to 1600 watts of output! NO COGGING - Cut in wind speed of 2.6 m/s

Why buy a PMG over a Delco car alternator PMA?

The answer is simply more copper! More copper equals more power - each Energy Flow PMG rotor contains twice as much copper than any Delco style PMA.

Uses: Battery or battery bank charging, stackable wind turbine grid tie inverters, direct DC water heating elements, direct DC resistive heating, or other applications where 3 phase AC or DC can be used.

Note: If you are replacing a DC output wind turbine with our 3 phase turbine and do not want to change your DC wiring then you can mount the bridge rectifier at the top of the tower for a DC run down.

Wind Turbine Features:

- 1600 Watt Energy Flow PMG for efficient three phase power generation.
 - 3 phase bridge rectifier for converting to DC output.
 - (see below for more specifics)
- Heavy duty hub spacer/stabilizer.
- PMG mounting bracket and heavy duty Stars & Stripes wind turbine tail
 - Mounting Bracket fits on 1.5" schedule #40 or #80 pipe (1 7/8" OD) and allows for easy turning
 - Tail fin measures 9 3/4 inches wide x 28 3/4 inches tall
 - Cut from 16 gauge steel
 - Hot dipped galvanized weather resistant finish
- Comes with 9 Generation 4 carbon fiber composite blades
 - Aerodynamically tapered blades for maximum output
 - Generation 4 Blades are Made in the USA
- Assembled blades and hub make 61 inch swept area.
- Overall assembled length: 37 inches

No slip rings to fail or replace. Simple and effective, the turbine uses a wire tension system which will last a lifetime. The single power transmission cord never twists because the wind never spins the turbine around in the same direction hundreds of times. Typically, the wind only comes from two directions. It has yet to be an issue with any one of the thousands of turbines we have distributed.

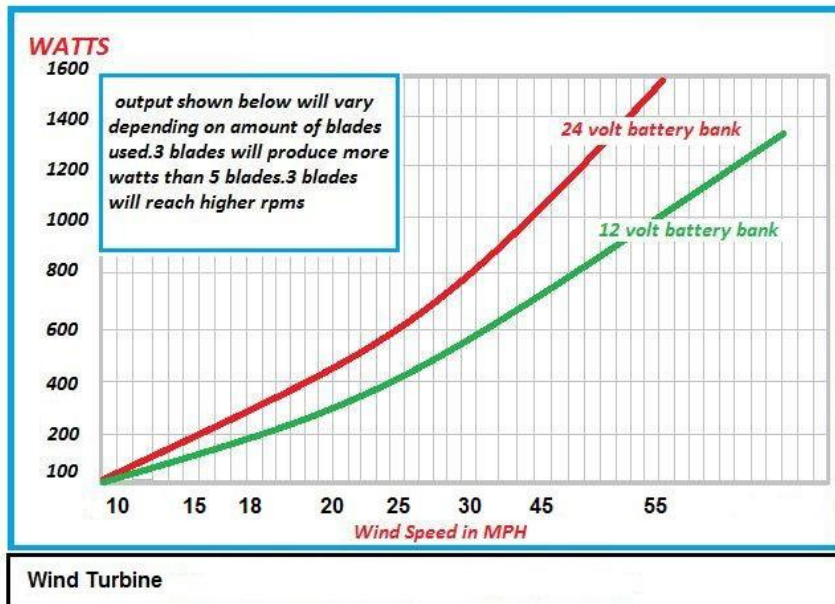
Energy Flow PMG Features:

- Specifically designed for wind turbines
- **NO COGGING - Cut in wind speed of 2.6m/s**
- Comes with a heavy duty rectifier & hub spacer stabilizer
- 17 mm stainless steel shaft
- Polished aluminum case
- Zinc plated 14 magnet rotor and skewed stator core
- Fits delco bolt patterns and mounts up to our standard mounting bracket.

Energy Flow PMG Specifications:

- 3/8" Diameter bolt holes
- 1 15/16" on center between mounting holes
- 5 7/8" OD Width
- 6 5/16" Tall

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Product Diagrams:



The wattages were derived at on a 65 foot wind turbine tower with no obstructions

