

Maglev Wind Generator

This wind generator uses magnetic levitation technology to maximize efficiency. It is available in power outputs of 50W, 100W, 200W, 300W, and 500W.



Overview

High-Efficiency Maglev Wind Technology

This Maglev Wind Generator utilizes advanced magnetic levitation technology to minimize friction and enhance energy conversion efficiency. Designed with a Darrieus aerodynamic structure, it offers quiet operation under 40 dB and exceptional wind resistance, making it suitable for diverse environmental conditions. The system is engineered for safety, featuring automatic over-speed braking and robust blade construction.

Technical Specifications

| | |
|-----------------------------|------------------------------------|
| Generator Type | Three-phase AC maglev wind turbine |
| Blade Material | Aluminum Alloy |
| Number of Blades | 3 |
| Operating Temperature Range | -30 to 50 °C |

Performance Metrics

Key Performance Metrics

| | | | |
|--------------------------------|-----------------------------------|-------------------------------------|-----------------------------------|
| 2 m/s Start-up Speed | 10 m/s Rated Wind Speed | 60 m/s Max Survival Speed | 40 dB Operational Noise |
|--------------------------------|-----------------------------------|-------------------------------------|-----------------------------------|

Wind Speed Thresholds

- Minimum start speed: 2 m/s
- Minimum power generation: 2.5 m/s
- Minimum charge speed: 3.5 m/s
- Maximum cut-off speed: 15 m/s

Model Variants

Available Configurations

| Rated Power | Wheel Diameter | Weight |
|-------------|----------------|--------|
| 400W | 1.2M / 1.06M | 30KG |
| 2000W | 2.2M / 3.25M | 120KG |
| 3000W | 2.6M / 2.8M | 140KG |

Safety and Control

Safety Features

Bird-friendly Design • High-wind Resistance • Maglev Friction Reduction • Aerodynamic Noise Reduction

Controller Specifications

DC48V Output, AC220V Output, 130A Output Current, Over-speed Automatic Braking, Three-phase Short-circuit Braking