



合肥为民电源有限公司
Hefei Win Power Co., Ltd.

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Hefei Win Power Co., Ltd.

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ELECTRIC VARIABLE PITCH WIND TURBINE GENERATOR

PRODUCT CATALOG | 2026

Designated unit for the formulation of small wind power series standards

风光储充示范站

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Company Introduction

Hefei Win Power Co., Ltd. was founded in 2005 by Zhang Weimin, a Strategic Emerging Technology Leader of Anhui Province and Senior Engineer. With a registered capital of 20 million RMB, the company is rooted in the small wind power industry. It operates as a high-tech enterprise specializing in the R&D, production, sales, and service of wind power generation equipment, while also providing small wind power system solutions. The company serves as a council member of the 8th Wind Machinery Branch Council of the China Association of Agricultural Machinery Manufacturers.

During its R&D and product industrialization processes, Win-Power has acquired multiple domestic authorized patents and pioneering technologies. The company possesses 48 core independent intellectual properties, including 19 authorized invention patents. In recent years, it has chaired or participated in the formulation of over ten international, national, and industry standards. Notably, Win-Power acted as the primary drafting unit for two National Standards, establishing itself as a key formulator and participant in small wind power industry standards. Its products are sold in 73 countries and regions, including Europe, the United States, Japan, and South Korea.



21 Years

Established in 2005,Has been focusing on the small wind power industry for 21 years.



73 Pcs

Products are sold in 73 countries and regions including Europe, America, Japan, and South Korea.



48 Items

Possessing 48 core independent intellectual property rights, including 19 invention patents



11 Items

Chaired and contributed to the development of over 10 national and industry standards

Involved In Standard Creation

Chaired Formulation	- National Standard GB/T 34521-2017 “Controllers for small wind turbines” - National Standard GB/T 36996-2018 “Permanent magnet disc-type coreless generators for wind turbine generator
Chaired Revision	National Standard GB/T 20321-2023“Inverters for off-grid wind and solar photovoltaic energy systems”systems”
Participated in Revision	- National Standard GB/T 19115-2018 “Wind-solar hybrid power generation system” - National Standard GB/T 19068-2017“Small wind turbines” - National Standard GB/T 10760-2017 “Generators for small wind turbines”
Participated in Formulation	International Standard IEC 62257-7-2 “Recommendations for small renewable energy and hybrid systems for rural electrification”
Chaired Formulation	- Energy Industry Standard NB/T 11590-2024 “Grid-connected converters for small wind turbines” - Energy Industry Standard (Under Development): “Integrated wind-solar off-grid controller and inverter” - Energy Industry Standard (Under Development): “General technical requirements for grid-connected small wind turbines”



WM-WT5K

WM-WT series electric variable pitch wind turbine generator set

Product Features

- Electric active pitch control for more flexible adjustment;
- Responsible for formulating standards for small-scale wind turbine series, with more advanced technology;
- Multiple safety protections: active pitch control + electromagnetic braking;
- A lower rated speed ensures lower noise;
- The host and converter are completely independently designed to ensure the reliability of the product;
- Suitable for various off grid and grid connected systems;

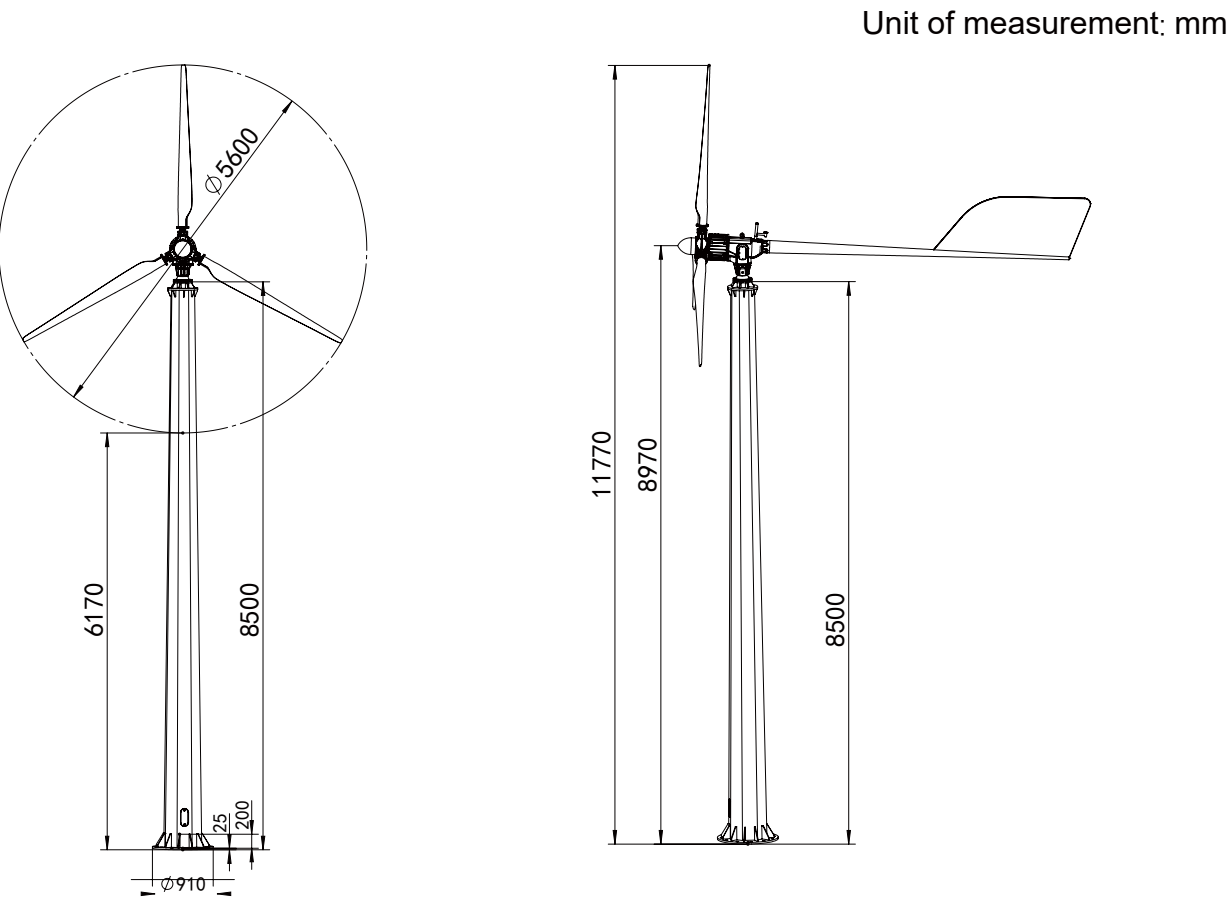


Figure Appearance dimensions



Model	WM-WT5K
Rated power	5kW
Rotor diameter	5.6m
Number of blades	3
Rated wind speed	11m/s
Rated speed	210RPM
Start wind speed	3m/s
cut-in wind speed	3.5m/s
Cut-out wind speed	25m/s
Extreme wind	59.5m/s
Rated voltage	220/380VAC
Tower height	8m
Brake system	Variable pitch + electromagnetic braking
Speed Control	Pitch adjustment
Lightning protection	Lightning arrester
Blade material	glass fibre
Generator Type	Permanent Magnet Synchronous Generator
Anti corrosion grade	C5
Protection grade	IP54
Life	20Years
Operation temperature	-30°C~50°C

WM-WT10K

WM-WT series electric variable pitch wind turbine generator set

Product Features

- Electric active pitch control for more flexible adjustment;
- Responsible for formulating standards for small-scale wind turbine series, with more advanced technology;
- Multiple safety protections: active pitch control + electromagnetic braking;
- A lower rated speed ensures lower noise;
- The host and converter are completely independently designed to ensure the reliability of the product;
- Suitable for various off grid and grid connected systems;

Unit of measurement: mm

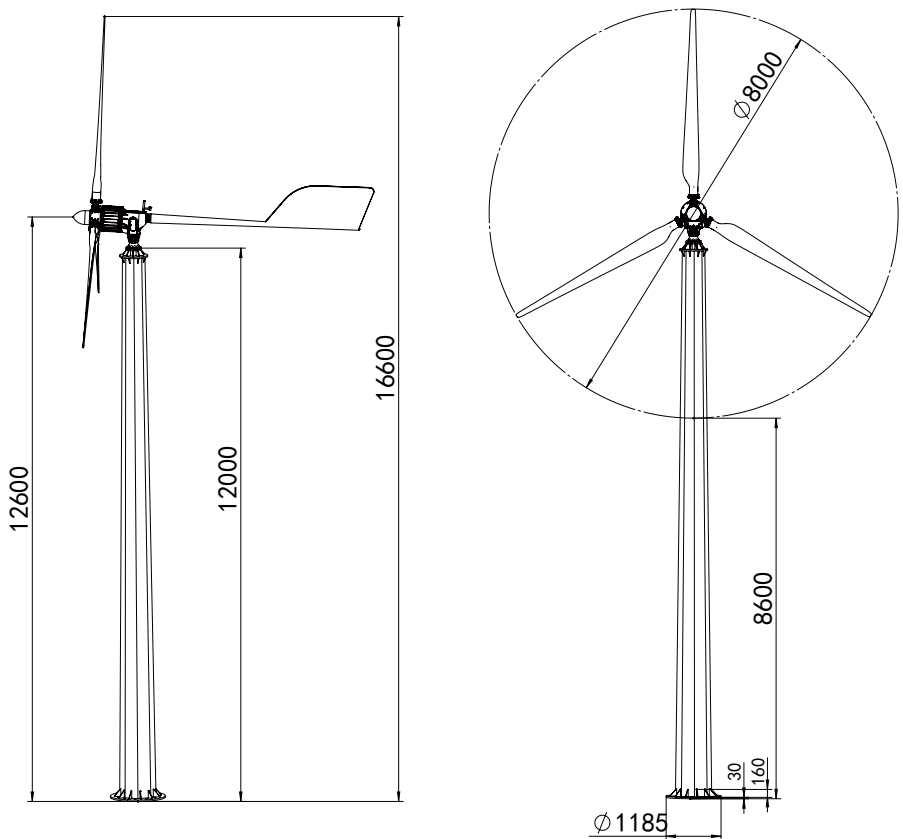


Figure Appearance dimensions



Model	WM-WT10K
Rated power	10kW
Rotor diameter	8m
Number of blades	3
Rated wind speed	11m/s
Rated speed	150RPM
Start wind speed	3m/s
cut-in wind speed	3.5m/s
Cut-out wind speed	25m/s
Extreme wind	59.5m/s
Rated voltage	220/380VAC
Tower height	12m
Brake system	Variable pitch + electromagnetic braking
Speed Control	Pitch adjustment
Lightning protection	Lightning arrester
Blade material	glass fibre
Generator Type	Permanent Magnet Synchronous Generator
Anti corrosion grade	C5
Protection grade	IP54
Life	20Years
Operation temperature	-30°C~50°C

WM-WT20K

WM-WT series electric variable pitch wind turbine generator set

Product Features

- Electric active pitch control for more flexible adjustment;
- Responsible for formulating standards for small-scale wind turbine series, with more advanced technology;
- Multiple safety protections: Mechanical brake + active pitch control + electro-magnetic braking+ active yaw
- A lower rated speed ensures lower noise;
- The host and converter are completely independently designed to ensure the reliability of the product;
- Suitable for various off grid and grid connected systems;

Unit of measurement: mm

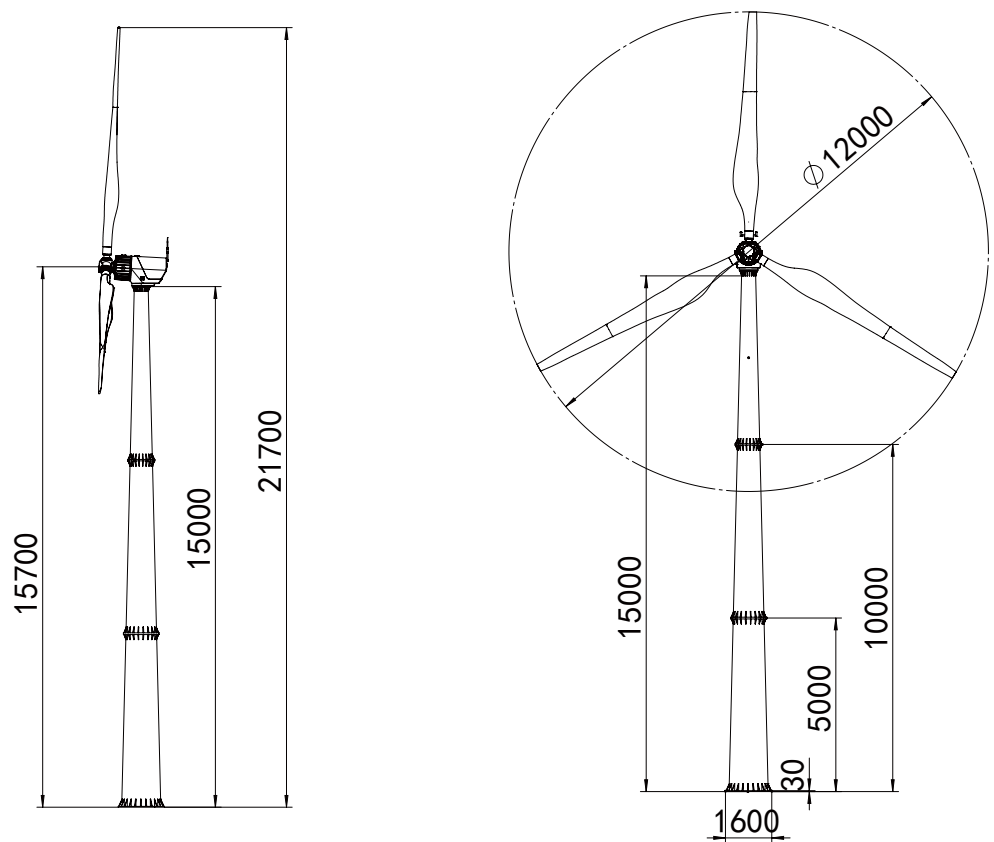


Figure Appearance dimensions



Model	WM-WT20K
Rated power	20kW
Rotor diameter	12m
Design level	IEC II
Number of blades	3
Rated wind speed	11m/s
Rated speed	120RPM
Start wind speed	3.0m/s
cut-in wind speed	3m/s
Cut-out wind speed	25m/s
Extreme wind	59.5m/s
Tower height	15m
Brake system	Variable pitch + electromagnetic braking + Electromagnetic braking
Speed Control	Pitch adjustment
Lightning protection	Lightning arrester
Blade material	glass fibre
Generator Type	Permanent Magnet Synchronous Generator
Anti corrosion grade	C5
Protection grade	IP54
Life	20Years
Operation temperature	-30°C~50°C

WM-WT30K

WM-WT series electric variable pitch wind turbine generator set

Product Features

- Electric active pitch control for more flexible adjustment;
- Responsible for formulating standards for small-scale wind turbine series, with more advanced technology;
- Multiple safety protections: Mechanical brake + active pitch control + electro-magnetic braking+ active yaw
- A lower rated speed ensures lower noise;
- The host and converter are completely independently designed to ensure the reliability of the product;
- Suitable for various off grid and grid connected systems;

Unit of measurement: mm

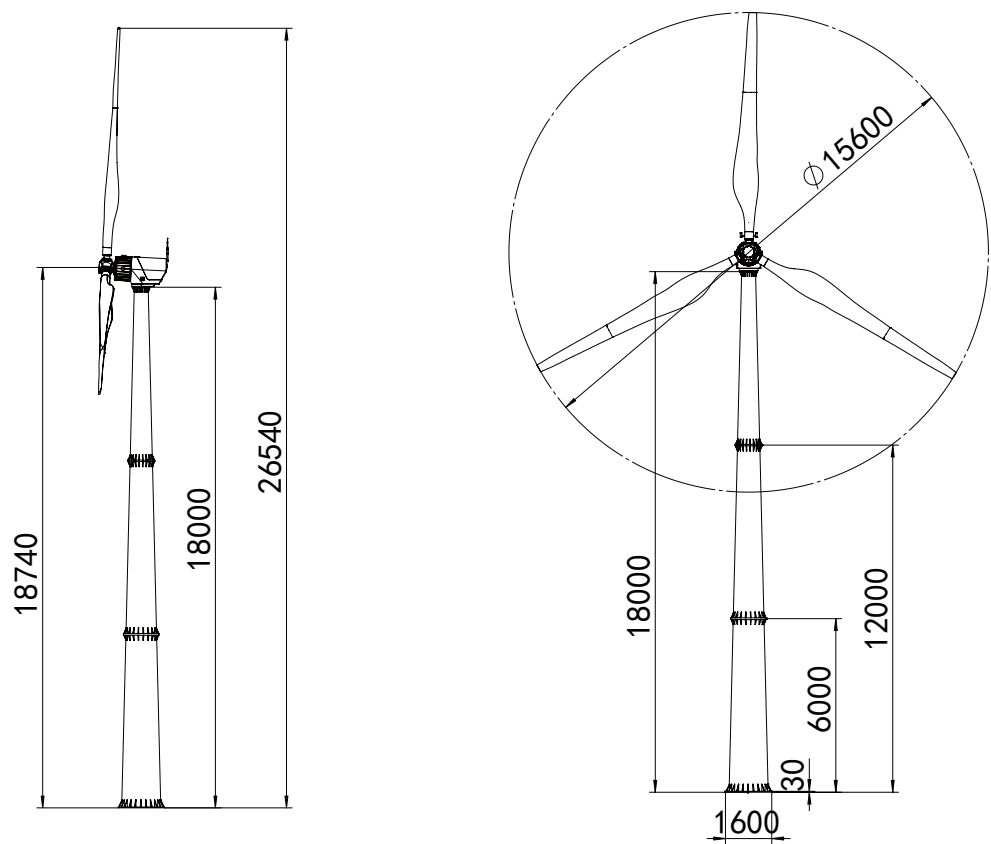


Figure Appearance dimensions



Model	WM-WT30K
Rated power	30kW
Rotor diameter	15.6m
Design level	IEC II
Number of blades	3
Rated wind speed	10m/s
Rated speed	80RPM
Start wind speed	3.0m/s
cut-in wind speed	3m/s
Cut-out wind speed	25m/s
Extreme wind	59.5m/s
Tower height	18m
Brake system	Variable pitch + electromagnetic braking + Electromagnetic braking
Speed Control	Pitch adjustment
Lightning protection	Lightning arrester
Blade material	glass fibre
Generator Type	Permanent Magnet Synchronous Generator
Anti corrosion grade	C5
Protection grade	IP54
Life	20Years
Operation temperature	-30°C~50°C

WM-WT50K

WM-WT series electric variable pitch wind turbine generator set

Product Features

- Electric active pitch control for more flexible adjustment;
- Responsible for formulating standards for small-scale wind turbine series, with more advanced technology;
- Multiple safety protections: Mechanical brake + active pitch control + electro-magnetic braking+ active yaw
- A lower rated speed ensures lower noise;
- The host and converter are completely independently designed to ensure the reliability of the product;
- Suitable for various off grid and grid connected systems;

Unit of measurement: mm

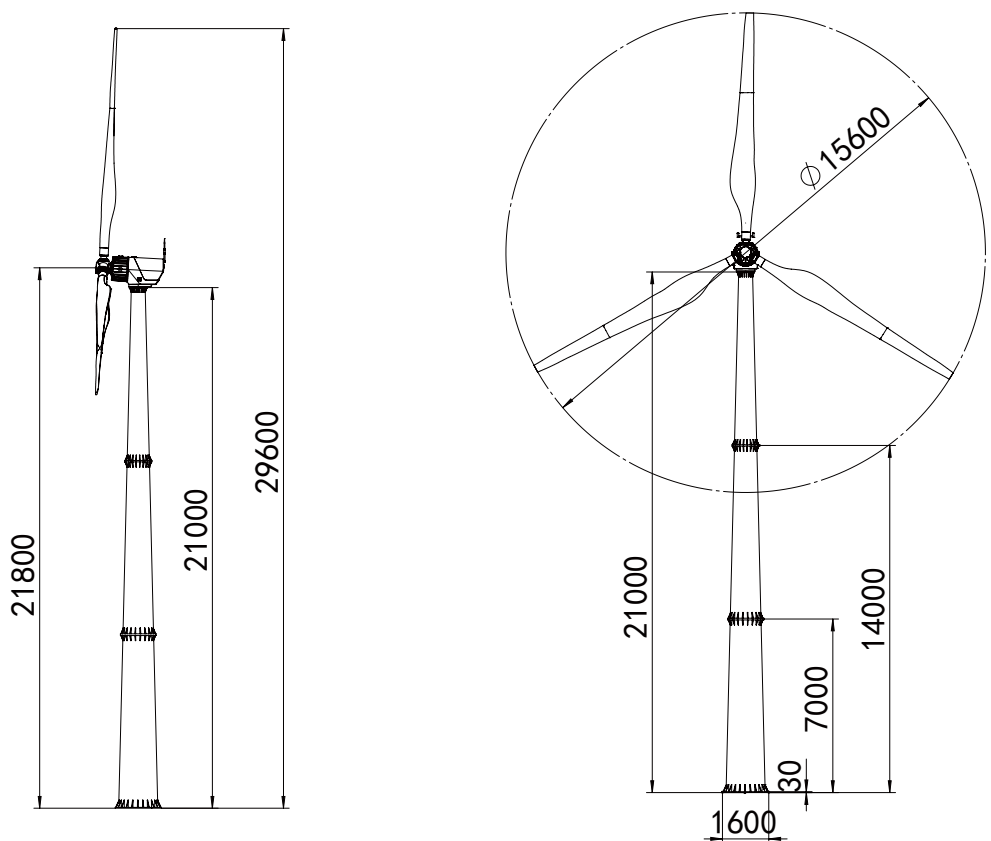
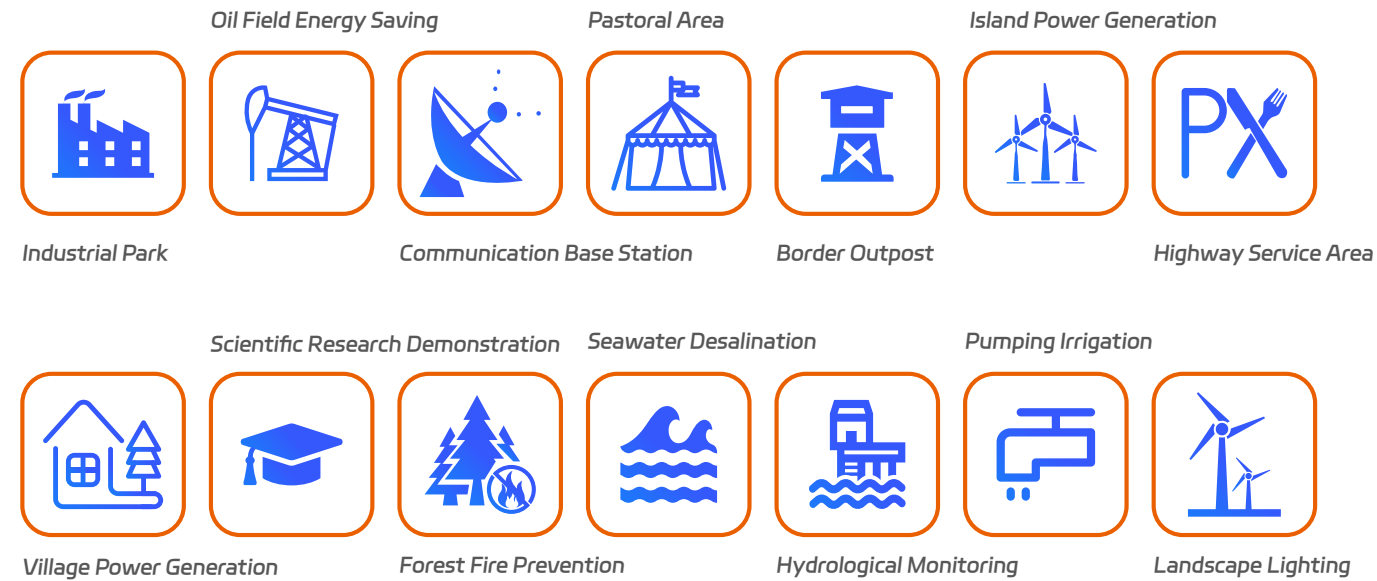


Figure Appearance dimensions



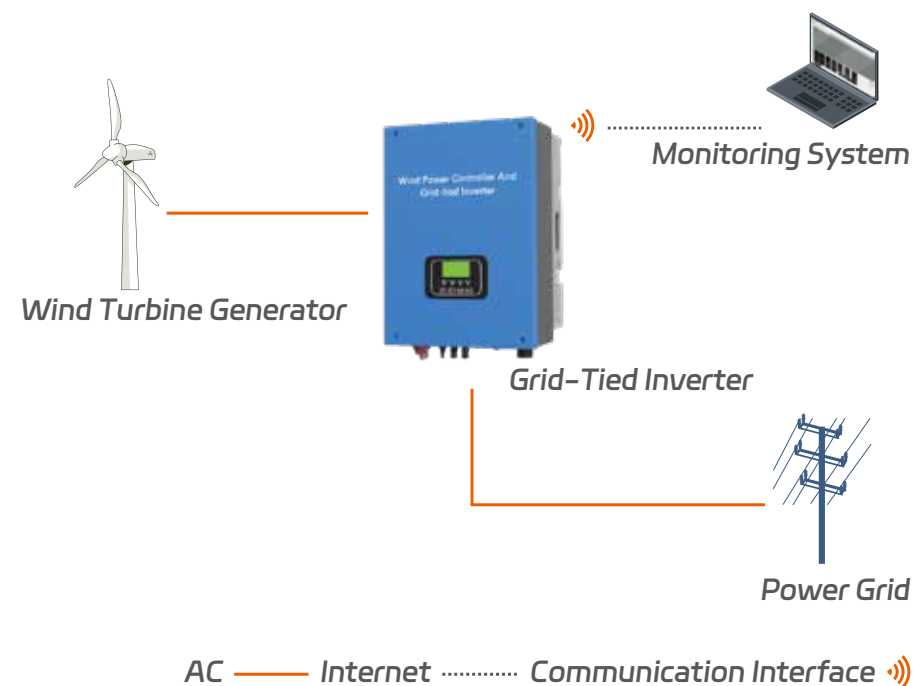
Model	WM-WT50K
Rated power	50kW
Rotor diameter	15.6m
Number of blades	3
Rated wind speed	11m/s
Rated speed	80RPM
Start wind speed	3.0m/s
cut-in wind speed	3.5m/s
Cut-out wind speed	25m/s
Extreme wind	59.5m/s
Tower height	21m
Brake system	Variable pitch + electromagnetic braking + Electromagnetic braking
Speed Control	Pitch adjustment
Lightning protection	Lightning arrester
Blade material	glass fibre
Generator Type	Permanent Magnet Synchronous Generator
Anti corrosion grade	C5
Protection grade	IP54
Life	20Years
Operation temperature	-30°C~50°C

Application Field



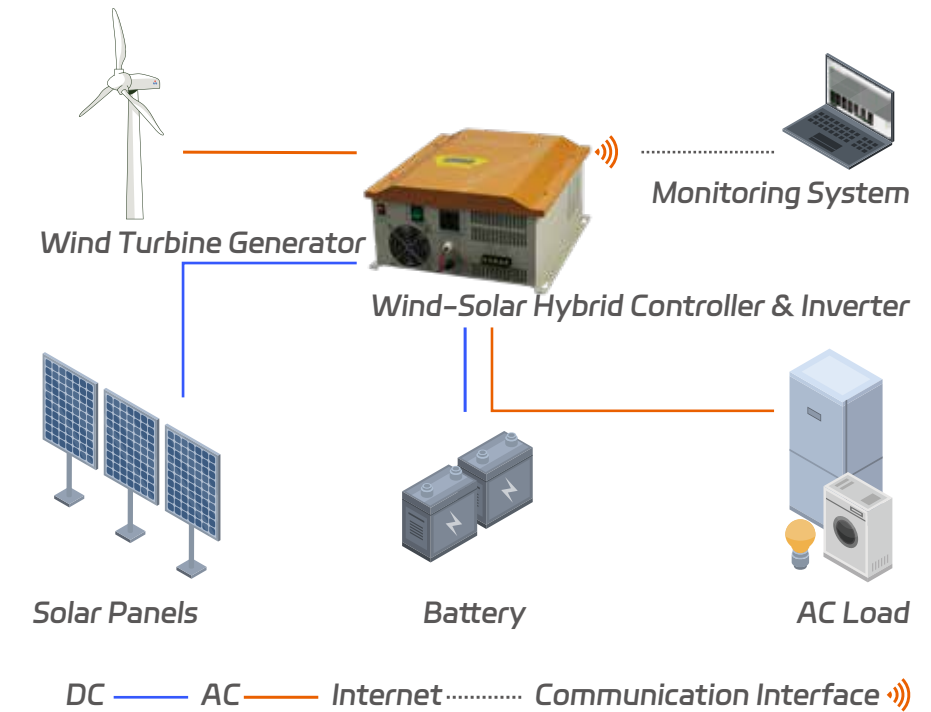
1 Distributed Wind Power Grid-Tied System

Distributed Wind Power Grid-Tied System is a low-carbon, eco-friendly renewable energy generation solution featuring wind control and inverter functions. Configurations include: Single-turbine grid connection (dedicated converter per turbine) Multi-turbine centralized conversion (shared converter) Applicable for residential-scale installations and microgrid applications.



2 Off-Grid Wind-Solar Hybrid Systems

Off-grid wind-solar hybrid systems primarily include: Wind-solar supervisory control systems, Hybrid street lighting systems, Residential off-grid hybrid systems, PV off-grid systems



3 Wind-Solar-Diesel-Storage Hybrid Microgrid System

The Wind-Solar-Diesel-Storage Hybrid Microgrid System is an eco-friendly, low-carbon renewable power generation approach. It integrates wind turbine control, battery charging management, and inverter functions. By leveraging energy storage to stabilize power supply, it enhances electrical reliability while supporting both grid-connected and islanded operations.

