

# 5kW Variable Pitch Wind Turbine Generator

This 5kW wind generator is designed for efficient energy conversion. Featuring a changeable propeller pitch mechanism, this generator optimizes performance by adjusting blade angles to match varying wind speeds.



## Overview

### High-Efficiency Energy Conversion

The 5kW variable pitch wind turbine generator is engineered for superior performance across a wide range of wind conditions. By utilizing an advanced changeable propeller pitch mechanism, the system dynamically adjusts blade angles to optimize energy capture and reduce mechanical stress. This robust design ensures reliable, long-term operation, making it an excellent choice for both grid-tied and off-grid renewable energy projects.

## Performance Metrics

### Rated Power Output

**5 kW**

Rated Power

## Technical Features

Blade Technology	Variable Pitch Mechanism
Suitable Applications	Grid-tied, Off-grid

## Operational Benefits

### System Benefits

- Optimized energy conversion in diverse wind speeds
- Reduced mechanical stress through pitch adjustment
- Durable construction for long service life
- Cost-effective renewable energy generation