

# PROVEN 7 WIND TURBINE

[www.provenenergy.com](http://www.provenenergy.com)

[info@provenenergy.com](mailto:info@provenenergy.com)

## Technical Specifications v2.3

### ROTOR

TYPE: Downwind, 360 degrees free yawing  
 SPEED CONTROL: Self-regulating  
 BLADES: 3 blades, passive coning and pitch control  
 ROTOR DIAMETER: 3.5m  
 RATED SPEED: 300 rpm @ 12m/s  
 ROTOR THRUST: 5kN

### GENERATOR

TYPE: Brushless permanent magnet, direct drive  
 OUTPUT: Grid connect 300V, battery charging 24/48/120V,  
 direct heating 240V switch DC

### TOWERS

TYPE: Self-supporting hinged monopole  
 HUB HEIGHT: 6.5m or 11m

### PAD FOUNDATIONS

2.50m x 2.50m x 1.00m (11m tower)  
 2.20m x 2.20m x 1.20m (6.5m tower)

### WEIGHT

TURBINE HEAD: 190kg

### SOUND EMISSION

40dB @ 5m/s  
 60dB @ 20m/s  
 (measured using a portable sound meter at turbine base @1.5m height)

### PERFORMANCE

CUT-IN WIND SPEED: 2.5m/s  
 MAX WIND SPEED (survival): 70m/s  
 ESTIMATED ANNUAL YIELD: 3,200 - 6,400kWh

### BUILD MATERIALS AND COLOURS

FRAME: Galvanised steel, grey (not visible)  
 BLADES: Glass thermoplastic composite, black or white  
 COVERS: Plastic, black or white  
 TOWERS: Galvanised steel, grey



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PROVIDING ROBUST RELIABLE  
 WIND POWER WORLDWIDE