



The BroadStar AeroCam Type I

The AeroCam is intelligent science. The science behind the BroadStar AeroCam is brilliant in its simplicity. In the same way that an airplane wing uses the movement of air to generate a force powerful enough to raise an enormous aircraft and keep it airborne, the AeroCam captures energy from wind with incredible efficiency. The patented* design features aerodynamic blades that use the natural flow of air to create lift, and an offset cam that allows the blades to continually adjust for optimal pitch throughout a 360° rotation of the turbine. As a result, the AeroCam is approximately 30 percent smaller yet generates the same power when compared to conventional horizontal axis wind turbines (HAWTs).

Features

- Blade pitch angle controlled through 360° rotation
- Self regulating speed control
- Long service life
- Low vibration
- Low noise pollution while operating
- Extreme survivability

Benefits

- 20%+ more power than conventional fixed blade designs
- Exceptionally wide operating range ~ 4 – 80+ MPH
- Can be deployed where conventional turbines cannot
- Slow rotation speed
- May be placed in turbulent environments

Specifications

Market: Urban

Rated Output: 10 KW at 30 mph wind speed

Diameter: 10 feet

Width: 16 feet

Type: 10 Blade Darrieus (*Horizontal Axis Configuration*)

Rotational Area: 502 square feet

Yaw: Actively Controlled

Gearbox: None (*Direct Drive*)

Generator: Permanent Magnet Alternator

Generator Output: Variable Frequency 3 Phase AC,
Regulated to 240 VAC 60Hz

*Protected by United States Patent No. 7,365,448 B2. Date of issuance: April 28, 2008. **Based on theoretical analysis and computer simulation.