6.25kW Vertical-Axis Wind Turbine

AMTEK

Our stand-alone vertical-axis turbine delivers 6.25 kW of continuous power and pairs with site-sized energy storage to keep remote equipment online 24/7. Low-RPM, ration minimizes maintenance visits and complies with strict rooftop noise limits, while a temperature range of –45°F to +104°F (–43°C to +40°C) ensures uptime in the harshest climates. By eliminating diesel runs and grid outages, operators reduce OPEX, improve network reliability, and advance sustainability goals.

DESCRIPTION

Turbine:	Savonius-Darrieus Hybrid (drag-lift). Will take wind from any direction
Maintenance:	Single THK Bearing on synthetic grease lubricate every 5 years
Expected Life:	15-25 years
Warrant:	5 years

FEATURES

- Omni-directional Savonius–Darrieus hybrid - no yaw motor required.
- Low RPM (< 120) means minimal vibration and zero wildlife strikes in 25 k+ hours.
- Hydraulic tilt option slashes tower-raise time and service costs.
- TÜV-tested; protected by 11 + global patents.

DIMENSIONS

Height of Blades:	192 in / 488 cm
Blade Depth:	29 in / 74 cm
Blade Width:	10 in / 25 cm
Diameter of Turbine w/Blades:	78 in / 198 cm
Circumference:	292 in / 742 cm
Weight of Turbine:	1650 lbs. / 748.4 Kg

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SPECIFICATIONS

Turbine Output:	6,250W AC 3 Phase
Ave. Rated Wind Speed:	3,300W @ 22.4 mph, 10m/sec.
Rotations Begins at:	4.5 mph, 2m/sec. wind speed
Generation Begins at:	6.7 mph, 3m/sec. wind speed
Cut off Wind Speed:	70mph, 145km/h
Operating RPM:	70 - 120 RPM
Braking System:	M/K Model 6250 wind power controller. Designed to keep the turbine operating under 120 RPM up to 145km/hr. – manual 9000 U resistor bank
Vibration:	Minimal Vibration
Configuration:	Three wind blades mounted directly to generator
Blades:	Powder Coated
Certification:	TUV Certified
Noise:	65db @ 15ft (4.5m

AMTEK GROUP
Montréal, Canada.
Tel: +1 (514) 819-1653 I www.amtekgroup.com