



Hybrid Clean Energy Generation

Performance Advantages

- Roof-Top Wind & Solar Hybrid Energy System.
- 24-hour power production capability.
- · Higher power density per square foot.
- Scalable power generation.
- Mechanical braking at high-speed winds beyond 18.5 m/s.
- · Appropriate for on or off grid applications.
- Offsets peak energy pricing for grid-tied systems.
- Minimizes backup battery storage requirements.
- Online tool for power generation monitoring.
- Power generation starting at 2 m/s wind speed.

Benefits

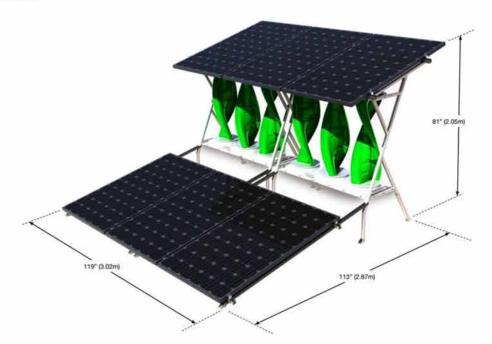
- Easy to mount on any rooftop; no complicated masts, guy wires, or towers.
- Simple ballasted installation that avoids roof penetration.
- Visually engaging design complementing building façade.
- · Environment-friendly, silent operation.

Features

- Low profile Vertical Axis Savonius Wind Turbines.
- Cut-in wind speed 2 m/s & Cut-out wind speed – 18.5 m/s.
- Scalable to user defined KW need interconnection cables provided.
- Integrated Maximum Power Point Tracking (MPPT) with "smart" bus logic control technology – 48vDC.
- · Simple mounting process.
- Easy assembly and maintenance.
- · Minimal running maintenance required.
- · Custom colors available.
- Temperature sensing electronics for thermal protection.
- Able to withstand temperature ranges from -30°C to 50°C.

Contact Information

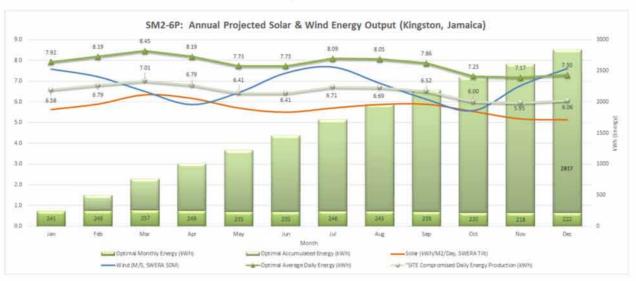
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Tri-Helix Solar Windmill TH2-6

Technical Specifications



| WIND COMPONENT | |
|--|---|
| Turbine Rated Power Output | 286 W @ 11 m/s |
| Wind Component Maximum Power Output | 1000 W @ 17 m/s |
| Maximum Voltage | 56 VDC |
| Maximum Current | 30 Amps |
| Rotor Diameter | 13 in 0.33 m |
| Cut-In Wind Speed | 4.5 mph 2 m/s |
| Cut-Out Wind Speed | 38 mph 18.5 m/s |
| Swept Area | 1,519 in ² 0.980 m ² |
| Turbine Material | Galvanized G-90 Steel |
| SOLAR COMPONENT | |
| Maximum Power (Pmpp) | 1500 W |
| Voltage at Nominal Power (Vmpp) | 29.65 V |
| Current at Nominal Power (Impp) | 8.47 A |
| Open Circuit Voltage (Uoc) | 37.98 V |
| Short Circuit Current (Isc) | 8.80 A |
| *Reduction in module efficiency with decrease in irradiation level from 1000 W/m² to 200 W/m² (at 25 degrees C). | |
| Maximum System Voltage | 1000 V |
| Solar Cells | Monocrystalline |
| No. of Cells | 360 |
| ENTIRE SYSTEM | |
| SolarMill Dimensions | 2950 mm (L) x 2555 mm (W) x 1900 mm (H) |
| Weight | 555 lbs 251.74 kgs |
| Cover Material | UV Resistant HDPE |
| Frame | Galvanized G-90 Steel and Aluminum |
| Electronics Enclosure Rating | IP53 |
| Electrical Connection | On-Board Battery Charge Controller |
| | Grid-Tied Inverter (Optional) |
| Generator | Permanent Magnet Axial Gap |
| Design Life | 20 Years |
| Levelized Cost of Energy | \$0.12/kWh |