

Technical Information:

| Rotor | nova-wind 6/230-1 AC | nova-wind 6/400-3 AC | nova-wind 6/120-3 DC |
|------------------------------|--|---|----------------------|
| Diameter | 6.0 m [19.7 ft.] | As nova-wind 6-1 AC | |
| Number of rotor blades | 4 | As nova-wind 6-1 AC | |
| Position | Upwind | As nova-wind 6-1 AC | |
| Rated Speed | 83 / 124 rpm | As nova-wind 6-1 AC | 75 / 125 rpm |
| Design of Blades | Steel and composite structure | | As nova-wind 6-1 AC |
| Design of Hub | Steel / rigid | | As nova-wind 6-1 AC |
| Drive Assembly | | | |
| Gear Unit Design | Spur Gear 12:1 | | As nova-wind 6-1 AC |
| Generator | | | |
| Type | Asynchronous, pole changeable | | Asynchronous |
| Rated Power | 1.5 kW / 6.0 kW | | 6.0 kW |
| Speed | 1,000 / 1,500 rpm | | 1,500 rpm |
| Rated Voltage | 230V, 50Hz, Single Phase | 400V, 50Hz, 3-Phase | 120V a/ |
| Power Characteristics | | | |
| Cut-in wind speed | 3 m/s [7 mph] | | |
| Rated wind speed | 10.6 m/s [24 mph] | 11.5 m/s [26 mph] | |
| Cut-out wind speed | NONE – Storm-Proof | | |
| Survival wind speed | 70 m/s [157 mph] | | |
| Control Systems | | | |
| Power Control | | | |
| Aerodynamic | Passive blade pitch change | | |
| Electrical | Electronically monitored pole change | Electronically monitored load resistors | |
| Yaw Control | Wind vane | | |
| Safety Systems | | | |
| Aerodynamic | Blade pitch change | | |
| Mechanical | Disc brake – electro-mechanical | Disc brake – mechanical | |
| Tower | | | |
| Design | Hot galvanised steel with hydraulic lift hinged monopole | | |
| Hub Height | 15m [49 ft] | | 20m [66 ft] |
| Weights | | | |
| Total weight of tower head | 363 kg [800 lb] | | |
| Mast 13m 42ft | 220 kg [485 lb] | | |
| 19m 62ft | 330 kg [727 lb] | | |

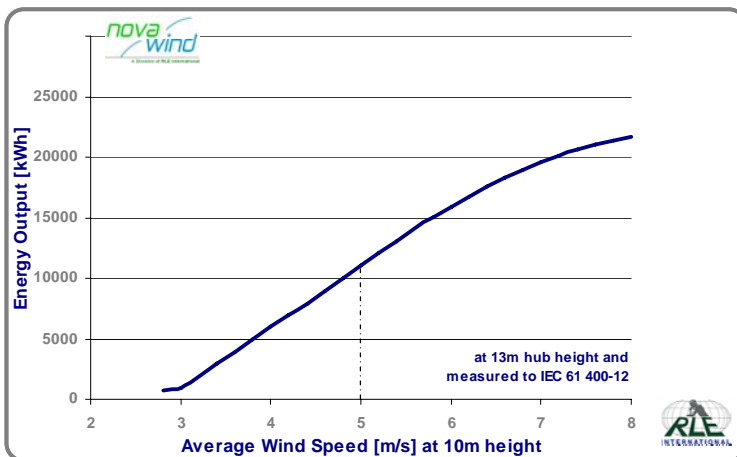
a/ Other voltages also available

Power Curve [kW]



| Wind Speed [m/s] | Power [kW] |
|------------------|------------|
| 3 | 0 |
| 4 | 0.27 |
| 5 | 0.74 |
| 6 | 1.29 |
| 7 | 2.31 |
| 8 | 3.50 |
| 9 | 4.49 |
| 10 | 5.09 |
| 11 | 5.46 |
| 12 | 5.75 |
| 13 | 5.96 |
| 14 | 6.10 |
| 15 | 6.21 |

Annual Energy Yield [kWh]



| Annual Mean Wind Speed [m/s] | Annual Energy Yield [kWh] |
|------------------------------|---------------------------|
| 4.0 | 5,960 |
| 4.5 | 8,430 |
| 5.0 | 11,030 |
| 5.5 | 13,570 |
| 6.0 | 15,910 |
| 6.5 | 17,950 |
| 7.0 | 19,570 |
| 7.5 | 20,850 |
| 8.0 | 21,670 |

Performance Data

This data has measured at a real-world test site by an independent certification body. All of the methods, test equipment and analysis conform to IEC 61400-12 and the British Wind Energy Association [now Renewable UK] Small Wind Turbine Performance & Safety Standard: 2008.

Power is a measure of electrical energy flow and is maximised by efficient design in terms of converting available wind energy into electricity; it is measured in kilowatts [kW].

The performance of wind turbines can be determined in different ways. The most meaningful is **Annual Energy Yield** [or Annual Energy Output] is a measure of the total energy generated during the course of a complete year in all seasons and weather conditions; it is measured in kilowatt-hours [kWh]. **The focus is on realistic wind speeds with the emphasis on 5 m/s as a comparator for all turbines.** If you want to compare our turbine against others, make sure that they measure to IEC 61400 and at 5m/s.

Local topography, obstacles like buildings, trees and hedgerows, tower height and local wind conditions will all influence the annual energy produced by a turbine.

Certification

nova-wind turbines have achieved MCS Accreditation status [Transition Products 601 and 602] in the UK making them eligible for the receipt of Feed-In-Tariff [FIT] payments as well as other financial incentive schemes that may be available.

Our Aim

nova-wind aims to make the best possible products and provide the best possible Customer Satisfaction in the marketplace; we are therefore continually looking to make improvements at any time without notice, subject to certification requirements.

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