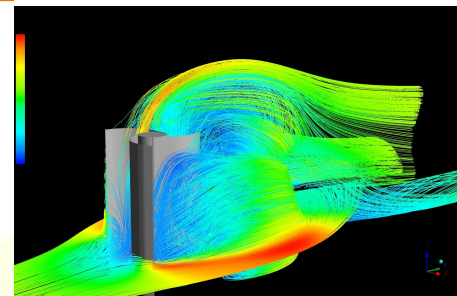


# Forgen<sup>®</sup> Ventus 70 Technical Data



The Forgen<sup>®</sup> Ventus 70 vertical axis wind driven generator embodies long established, high efficiency generator principles, combined with turbine airflow expertise. Low inertia of the carefully balanced all aluminum rotor assembly enables maximum advantage to be taken of average weather conditions. The Forgen<sup>®</sup> Ventus 70 comes complete with charge controller which incorporates Maximum Power Point Tracking (MPPT) and boost/buck functionality to ensure maximum efficiency at all times. Indeed the new Forgen<sup>®</sup> Ventus 70 offers 100% increase in power output compared with earlier Forgen<sup>®</sup> models.



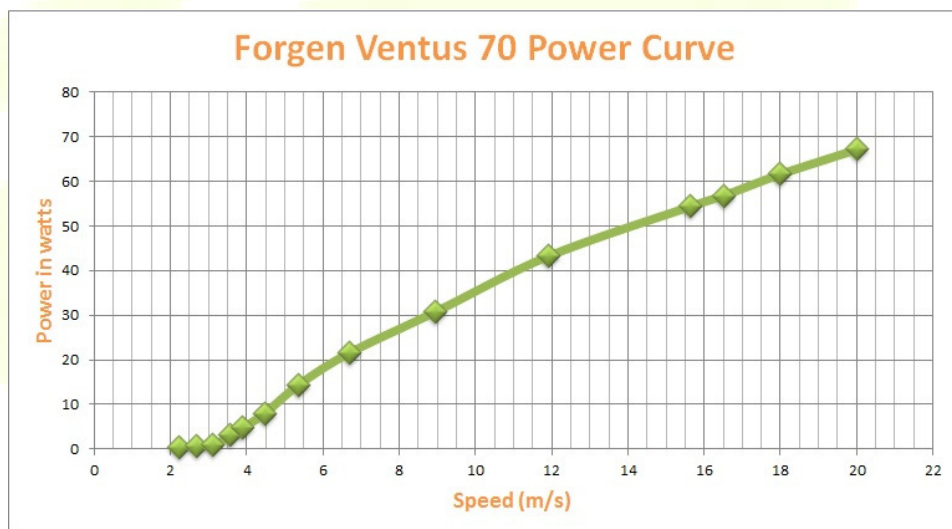
Example outputs from CFD analysis

## Technical Specifications

|                     |   |
|---------------------|---|
| Rotor Diameter      | 300mm   |
| Vane height         | 465mm   |
| Output voltage      | Suitable for 12VDC  |
| Start-up wind speed | Approximately 2ms <sup>-1</sup> (3.88knots)                           |
| Cut-in wind speed   | Approximately 2.5ms <sup>-1</sup> (4.85 knots)                        |
| Generator           | Three Phase permanent magnet  |
| Noise Level         | Less than 5dB, 5m from unit   |
| Coating             | All exposed parts powder coated aluminium, centre shaft cold anodised |
| Bearing             | Fully sealed  |
| Temperature range   | Normal Temperature: -20°C to +50°C, Low Temperature: -50°C to +50°C   |
| Wire                | 10 metres 2 core wire (options available)                             |
| Mounting option     | Pole mount, Wedge mount, Side mount, Rail mount                       |
| Weight              | 13 Kgs  |
| Installation        | Easy and simple   |
| Warranty            | 2 years   |
| Rated Power         | 50 W @ 20ms <sup>-1</sup>   |

## Special Features:

- Safe and silent in operation
- Non blade design for user safety
- No maintenance required
- Corrosion resistant components
- Electrical circuit fully protected against overload
- MPPT with integral voltage boost/buck functionality



\* For a 24VDC system data will differ

Forgen<sup>®</sup> Renewables operates a policy of continuous improvement and reserves the right to change its technical data and performance at any time.

For more information or to place an order, contact Forgen Renewables:

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