



Making Wind Power More Reliable



## VRS-10

### 10 kW Voltage Regulation Solution

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## VRS-10 10 KW Voltage Regulation Solution

Variable Wind Solutions' patent-pending Voltage Regulation Solution (VRS) represents a breakthrough in high-efficiency, cost-effective voltage regulation and stabilization for wind turbines.

The VRS monitors and responds - in real-time and virtually immediately - to alterations in rotor shaft rotation speed, assuring stable voltage output even when changes in wind speeds cause the turbine generator's RPMs to fluctuate +/- 60% from the generator's nominal RPM rating.

### Stable Voltage Output

The VRS-10 delivers stable voltage output at over 99% efficiency, helping to make the most of each and every gust of wind.

### Optimized for Low and Variable Speed Winds

Even when winds are gusty or low-speed, if the turbine's blades are spinning, the VRS-10 can deliver stable voltage despite the fact that the generator shaft's RPMs may be well below the generator's nominal RPM rating.

### Reduced Turbine Manufacturing and O&M Costs

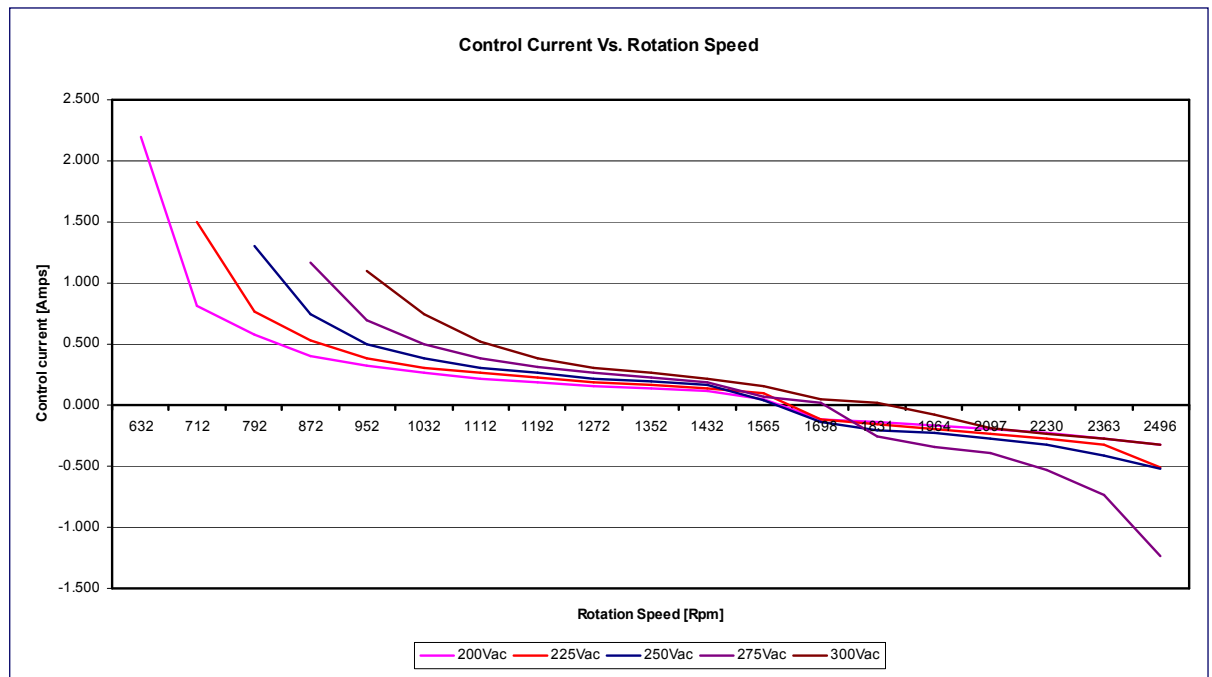
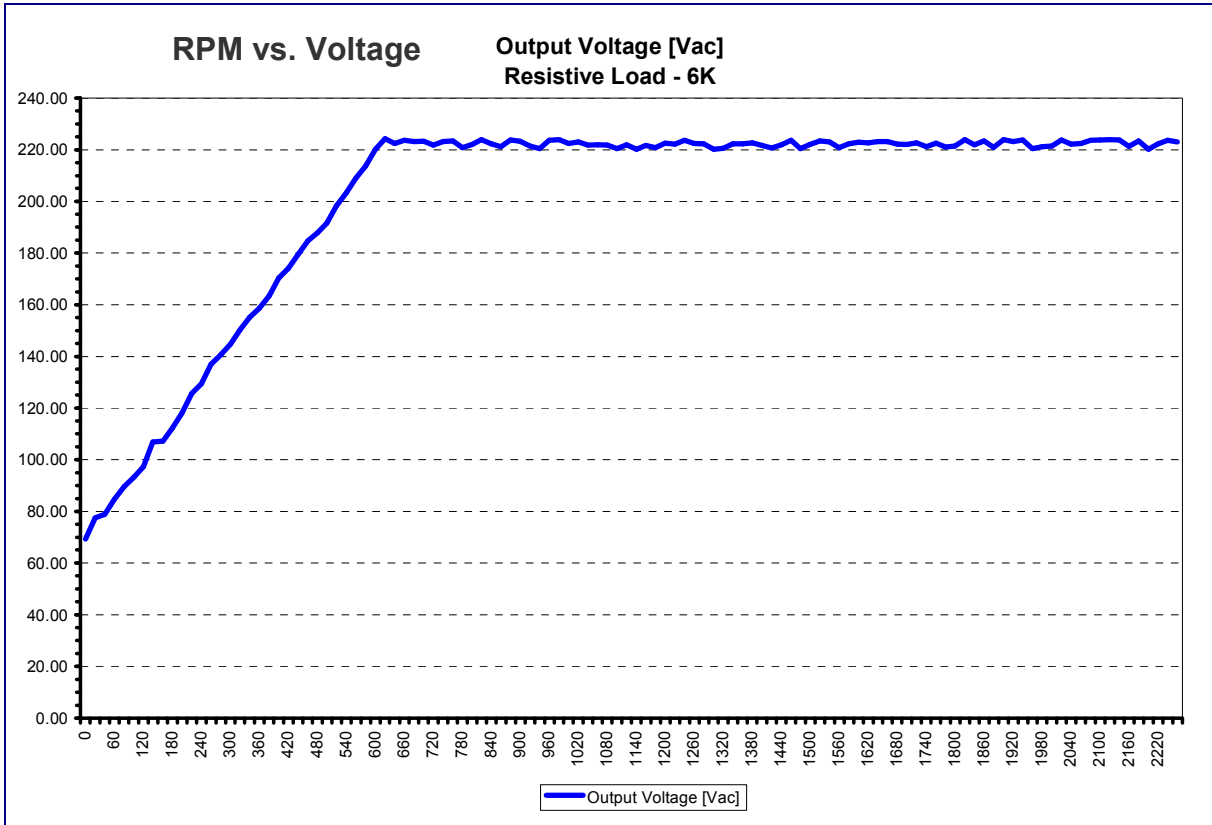
With the VRS-10 helping to absorb the stresses typically encountered by the wind turbine's mechanical and electronic components in low, high, and variable-speed winds, it is now possible to generate clean, reliable electricity across a very broad range of wind speeds, enabling cost-effective operation.

With Variable Wind Solutions' **VRS-10 10 kW Voltage Regulation Solution**, it no longer matters if your turbine is in a rural or urban setting, exposed to high, low, or variable-speed winds. Whatever the case, wind turbines employing the VRS-10 can now be installed in locations with wind regimes previously considered unsuitable, and so help bring clean, reliable energy to more and more people all around the world.

For more information, please contact us or visit [www.variable-wind.com](http://www.variable-wind.com)



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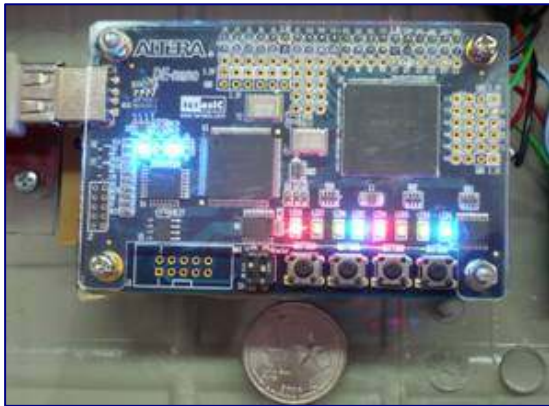


**Making Wind Power More Reliable**

**Digital FPGA Card**

(Prototype card)

Dimensions: 3.5 inch x 2.3 inch (L x W)



**Analog Conversion Card**

(Prototype card)

Dimensions: 4.5 inch x 2 inch (L x W)



**Note:** Future versions may integrate both cards on a single card smaller than the current combined size of the 2 cards.

*For more information, please contact us or visit*  
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