



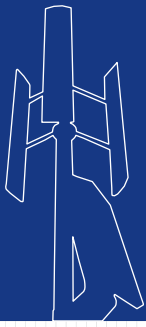
# Vertical Wind Turbine Brochure

*Aeolos wind turbine*  
**SINCE 1986**



**Aeolos-V 300W**  
**Aeolos-V 600W**

**AEOLOS**



# Aeolos-V

[www.australianwindandsolar.com](http://www.australianwindandsolar.com)

## Aeolos wind turbine SINCE 1986



### V 300W Specification

Generator Type: Three Phase  
Permanent Magnet

Rotor Height: 1.6 m (5.25 ft)

Rotor Width: 1.2 m (3.94 ft)

Blades Material: Aluminum Alloy

Safety Control: Electronic Dump Loading  
Blades Rotation Limitation  
360 rpm

### Performance

Rated Power: 300 W

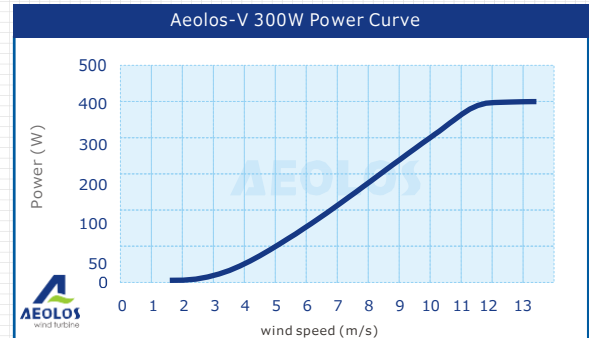
Max Output Power: 400 W

Cut In Wind Speed: 1.5 m/s (3.35 mph)

Rated Wind Speed: 10 m/s (22.3 mph)

Survival Wind Speed: 50 m/s (111.5 mph)

Noise Level: < 45 dB(A)



Wind Speed(m/s)	Annual Energy Output (kWh)	Wind Speed(m/s)	Annual Energy Output (kWh)
3 m/s	88 kWh	8 m/s	1576 kWh
4 m/s	227 kWh	9 m/s	2102 kWh
5 m/s	438 kWh	10 m/s	2628 kWh
6 m/s	683 kWh	11 m/s	3241 kWh
7 m/s	919 kWh	12 m/s	3504 kWh

### V 600W Specification

Generator Type: Three Phase  
Permanent Magnet

Rotor Height: 1.8 m (5.91 ft)

Rotor Width: 1.6 m (5.25 ft)

Blade Material: Aluminum Alloy

Safety Control: Electronic Dump Loading  
Blades Rotation Limitation  
360 rpm

### Performance

Rated Power: 600 W

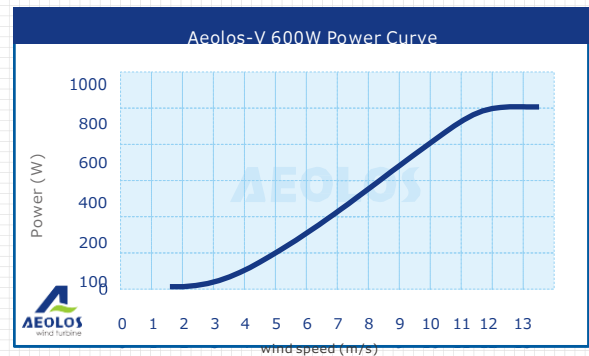
Max Output Power: 800 W

Cut In Wind Speed: 1.5 m/s (3.35 mph)

Rated Wind Speed: 10 m/s (22.3 mph)

Survival Wind Speed: 50 m/s (111.5 mph)

Noise Level: < 45 dB(A)



Wind Speed(m/s)	Annual Energy Output (kWh)	Wind Speed(m/s)	Annual Energy Output (kWh)
3 m/s	131 kWh	8 m/s	3328 kWh
4 m/s	481 kWh	9 m/s	4292 kWh
5 m/s	876 kWh	10 m/s	5256 kWh
6 m/s	1401 kWh	11 m/s	6394 kWh
7 m/s	1752 kWh	12 m/s	7008 kWh



**5 YEAR WARRANTY**



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**Aeolos wind turbine  
SINCE 1986**



## Why Choose Aeolos-V 300W, 600W Wind Turbine?

### Safety Protection

**Special Blade Design:** Aeolos-V blades use the aerodynamic design which limits the max rotating speed to 360 rpm even the wind speed is 30m/s or 40m/s. It is more safe and reliable than traditional vertical axis wind turbine.

**PWM Dump Load:** Aeolos-V controller use the PWM dump loading design. This will consume the over power output and control the voltage in strong wind speed.

### High Efficiency

**Low Start Up Wind Speed:** Aeolos-V wind turbine could start up with 1.5m/s and has the power output in 2.5m/s to inverter. This is more efficient than the vertical wind turbines with a 3.5m/s or even 4.5m/s start up wind speed.

**Out Rotor Generator:** Aeolos patent out rotor generator is very efficient for the vertical wind turbine as the generator outside shell is directly connected with blades. The generator efficiency is more than 96%.

**MPPT Charge Controller:** Aeolos-V 300W and 600W wind turbine use 24V/48V MPPT charging controller to increase the charging efficiency to 94%. It can charge the battery bank when wind speed is above 3.0m/s.

