

# Your best power solution



**AWS<sup>TM</sup> Vertical Wind Turbine**

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

# Harnessing the power of the wind



Wind is an inexhaustible source of energy. With the AWS™ Vertical Wind Turbine you can easily convert wind into electricity.

Wind Technology is one of the world's fastest growing industries. The modern consumer is concerned with the source of their daily energy requirement. Renewable (Green) Energy has already been embraced by the general population as the way of the future.

Globally wind turbines are included in the building design process as both an architectural and practical feature. Modern advancements in the AWS Vertical Wind Turbine

◇ Massachusetts Port Authority Building at Logan Airport, Boston, USA

◇ Adobe Systems San Jose, California, USA



◇ Palestra, the London Development Agency and the London Climate Change Agency, United Kingdom

◇ Eiffel Tower, Paris

◇ Bahrain World Trade Centre



# The Next Generation in Wind Technology

**Silent**

**Efficient**

**Powerful**

**Australian-Made**

**Cyclone-Proof**

**Architectural**

**Sleek Design**

**Modern**

**Affordable**

**Web Monitoring**

**Light Weight**

**Smart Control**







# AWS<sup>TM</sup> Vertical In Everyday Life

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Power is consumed in almost everything we do in everyday life. Although appliances have become more energy efficient the number of electric appliances and equipment has increased and so has the average daily energy consumption. In grid connected applications—and even more so in off grid applications— the source of our energy is vital.

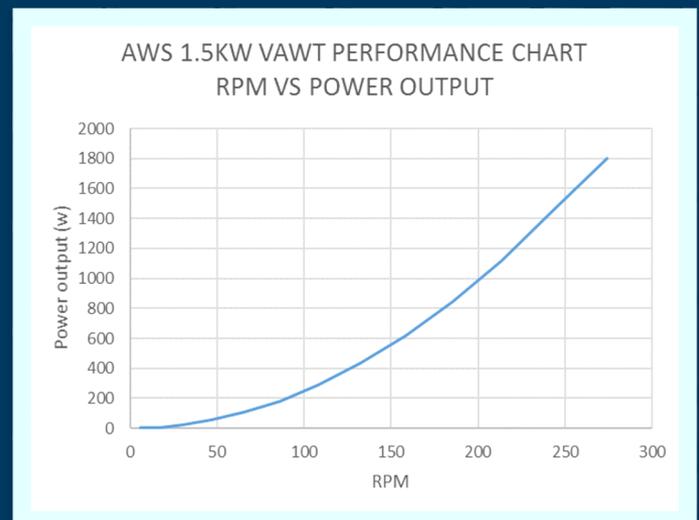
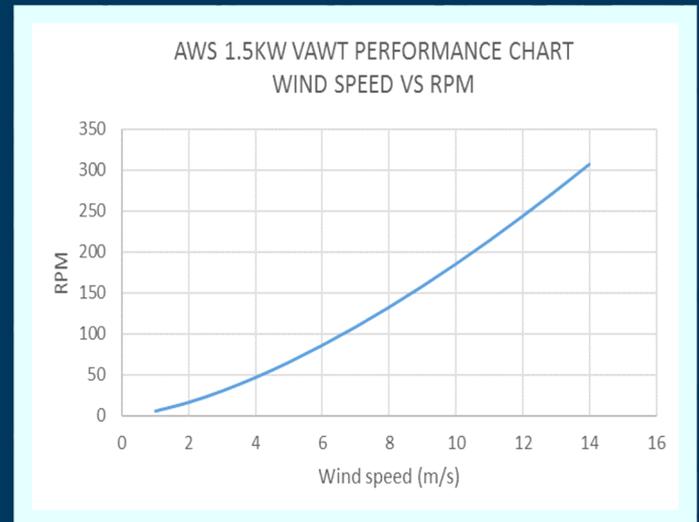
The AWS Vertical offers an efficient, low cost solution to harness the wind's energy and deliver it directly to the consumer. Commercial applications include powering lifts, public lighting, heating and cooling. Residential applications are suitable where low noise and low maintenance are important.

The sleek line, light weight and endless colour options makes the AWS Vertical easily adaptable to any commercial, farming or residential structure.

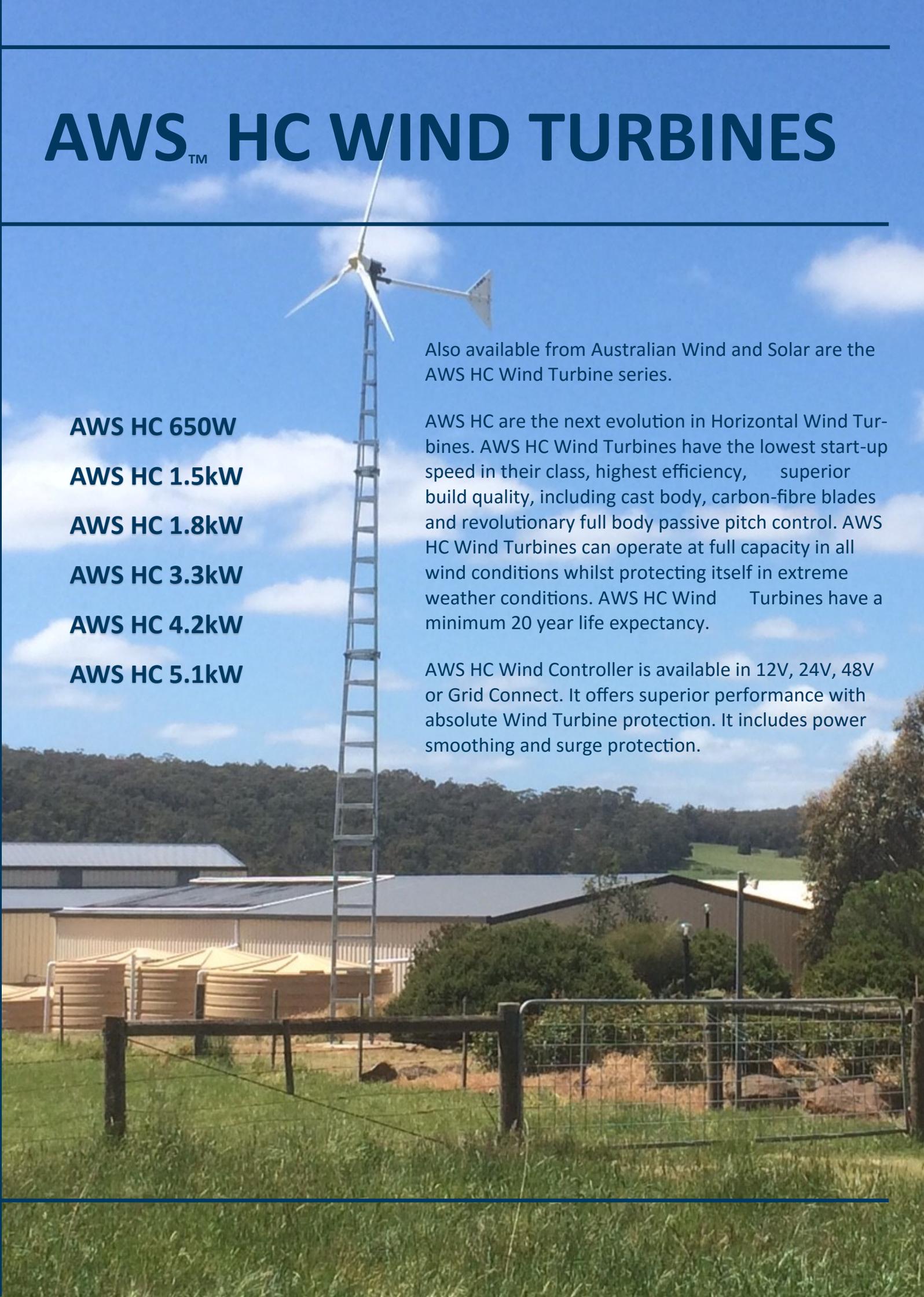
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# TECHNICAL SPECIFICATIONS

Rated output	1500W
Rated wind speed	12m/s, 26.8 mph
Peak output	1800W
Cut in	3.1 m/s
Yaw system	N/A
Yaw / Tower cable	Fixed
Generator	GL-PMG-687-3-AV
Max stator core temp	150
Mounting	Tower or building mount
RPM	250
Over speed limit	300 RPM
Turbine diameter	2.05
Number of blades	3
Blade material	Al MF 6060 T5
Swept area	6.77 m <sup>2</sup>
Min tip clearance	N/A
Tip speed ratio	1.8
Governor-over speed limit	Auto brake on
Govern speed	14 m/s
Colour options	Std—White. Any colour available on request.
Unit weight (Tower top)	200 kg
Tower top plate	240mm dia
Voltage options	48V, 120V US, 240V AUS
Electronic controller	Included but separate
Warranty	2 years
Operating life	20 years
Survival wind speed	55 m/s
Suggested routine maintenance	Annual inspection



# AWS™ HC WIND TURBINES



**AWS HC 650W**

**AWS HC 1.5kW**

**AWS HC 1.8kW**

**AWS HC 3.3kW**

**AWS HC 4.2kW**

**AWS HC 5.1kW**

Also available from Australian Wind and Solar are the AWS HC Wind Turbine series.

AWS HC are the next evolution in Horizontal Wind Turbines. AWS HC Wind Turbines have the lowest start-up speed in their class, highest efficiency, superior build quality, including cast body, carbon-fibre blades and revolutionary full body passive pitch control. AWS HC Wind Turbines can operate at full capacity in all wind conditions whilst protecting itself in extreme weather conditions. AWS HC Wind Turbines have a minimum 20 year life expectancy.

AWS HC Wind Controller is available in 12V, 24V, 48V or Grid Connect. It offers superior performance with absolute Wind Turbine protection. It includes power smoothing and surge protection.



# About Australian Wind and Solar

AWS<sup>TM</sup> is the official range of Wind Turbines manufactured by Australian Wind and Solar. AWS Wind Turbines are built to the highest quality, are stringently tested in the harshest Australian conditions and meet all Australian standards. An AWS Wind Turbine is one of the highest quality in the world and offers the best value from a reputable Australian company.

For more detailed information about the  
AWS<sup>TM</sup> VERTICAL WIND TURBINE visit  
[www.AustralianWindandSolar.com](http://www.AustralianWindandSolar.com)

