



## 風力發電 (Wind Turbine)



### WE-V29 Model

The WE-V29 is a slightly larger bladed 225kW medium sized wind turbine, suitable for sites with lower wind speeds.

#### 性能 PERFORMANCE

The energy capture of the WE-V29 turbine is exceptionally good across a wide range of wind speeds, and comes installed on a 31 metre free-standing tower for maximum energy capture.

#### 可靠性 RELIABILITY

The WE-V29 turbine is intended for a range of harsh conditions, especially exposed locations. The remaining design life of these machines is in excess of 20 years.

### 技術規格

#### TECHNICAL SPECIFICATION

發電機評級	Generator Rating	225kW @ 16 m/s
轉子速度	Rotor Speed	43 rpm nominal
切入風速	Cut-in Wind Speed	3.5 m/s
生存風速	Survival wind speed	56 m/s
轉子直徑	Rotor diameter	29 metres
轉子方向	Rotor orientation	上風 Upwind
葉片數	Number of blades	3
葉片材料	Blade material	玻璃纖維/聚酯纖維 Fibreglass/polyester
控制系統	Control system	間距控制 Pitch controlled
變速器	Gear box	Planetary

制動系統	Brakes	圓盤 Disc
發電機	Generator	非同步 Asynchronous
偏轉控制	Yaw control	動力 Powered
塔架高度	Tower height	31 metres standard

At a particular location, the wind speed will vary about an annual mean value.

Note: The annual electricity consumption of a medium size home is in the region of 4- 6MWh or 11-16 kWh per day. At 6 m/s wind speed the WE-V29 can provide the annual energy needs for 100 homes.



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