

WIND TURBINE

The lightweight and powerful wind turbine has been developed in direct consultation with leading wind energy experts and off-grid customers.

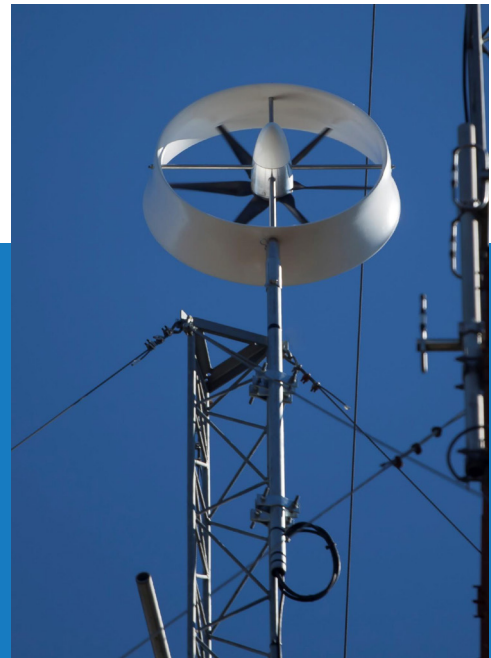
Seamlessly integrated with existing infrastructure, they enable the transition from diesel power generation to cheaper, more independent, safe and environmentally friendly wind power, overnight.

This wind turbine is designed in Australia for the toughest off-grid conditions.

FEATURES:

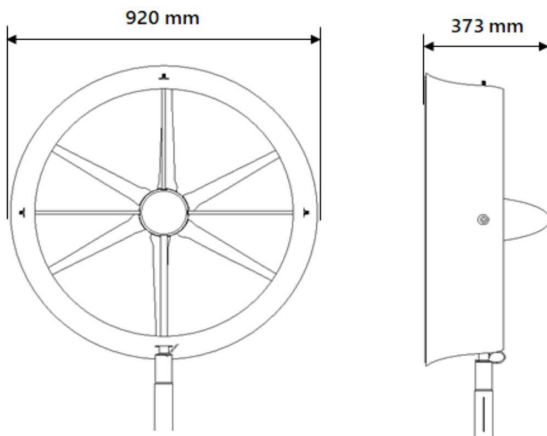
- Precision engineered carbon fibre composite blades
- Breakthrough diffuser technology maximises the wind resource
- Marketing leading 220W output
- Quiet and powerful
- Plug and Play integration with 24 and 48VDC systems
- Ideal for telecommunications, mining and utility markets



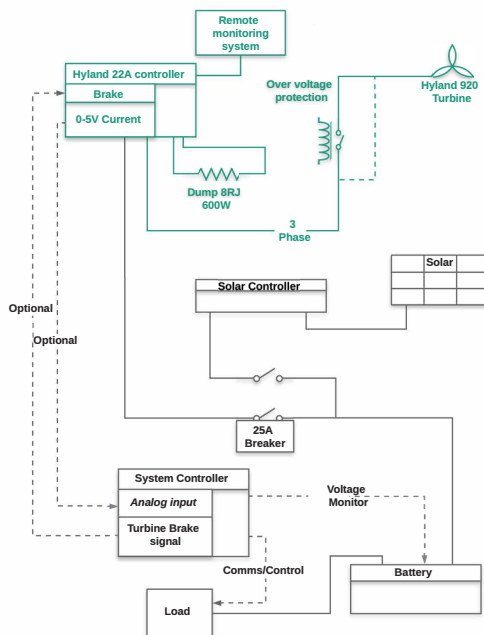


WIND TURBINE SPECIFICATIONS

Dimensions



Electrical Integration



Specifications

Physical dimensions	920 x 920 x 373 mm		
Mass	18.5 kg		
Rated power output	220 W		
Rated wind speed	11 m/s, 40km/h		
Peak Current to Battery	13A		
Peak Power	624 W @ 48 V nominal, 728 W @ 56V charge		
Peak Power wind speed	15.5 m/s +, 55km/h+		
Cut out wind speed (turbine stopped)	~19m/s, 70km/h		
Estimated annual production for a given annual mean wind speed. We note that the standardised Rayleigh wind resource is often optimistic compared to "real world" sites.	Wind speed	Rayleigh¹	BOM²
	4 m/s	380 kWh	311 kWh
	5 m/s	731 kWh	393 kWh
	6 m/s	1,175 kWh	608 kWh
	7 m/s	1,646 kWh	939 kWh
UV protection	20 years		
Output voltage	24, 48 VDC (2 models)		
Voltage Charge limits	29, 56 VDC (modified upon request)		
Protection systems	Generator electrical brake, stall regulated rotor		
Manual controls	Brake, stop		
Yaw system	Passively aligns to the wind direction		
Rotor configuration	6-bladed, horizontal-axis downwind		
CO2 savings	>1,000 kg/yr above 5 m/s		

Specifications subject to change without notice.



QUALITY CERTIFIED
ISO 9001 : 2015



ENVIRONMENT CERTIFIED
ISO 14001 : 2015



SAFETY CERTIFIED
ISO 45001 : 2018

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