

Britwind H1

1kW Wind Turbine

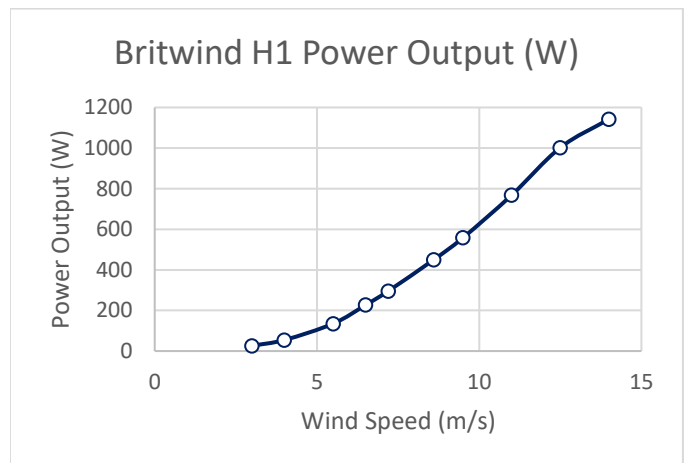
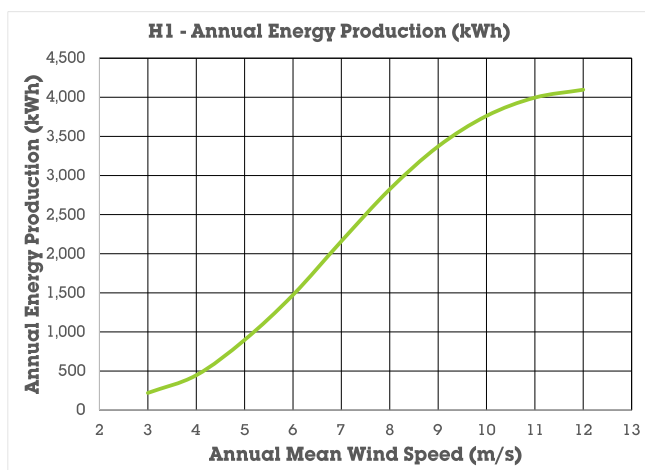
- High quality Permanent Magnet Generator
- Suitable for wind/solar hybrid installations
- Corrosion resistant materials
- Remote start/stop
- Start up wind speed of 3.5m/s
- Suitable for on-grid & off-grid sites
- Manufactured in the UK



With more than 6,000 units already in service worldwide, the highly robust and dependable H1 micro wind turbine demonstrates enviable capability in energy generation in an extensive range of applications.

Ideal for providing additional generation alongside solar pv systems particularly during the winter months or at night. The turbine has a low visual impact with a tower height of 8m, installed using special ground anchors, so no concrete foundations are required.

It features an auto stop function and can be controlled remotely via your smartphone, which also allows you to monitor performance. 24V and 48V battery charging versions available, depending on your requirements.



Specification

Architecture	Upwind, 3 bladed rotor, self-regulating
Nominal power	1,000W @12m/s (26.9mph)
BWEA reference power	768W @11m/s (24.6mph)
Annual energy yield	898kWh with Annual Mean Wind Speed (AMWS) of 5m/s (11.2mph) (to IEC & BWEA Standards)
Cut-in wind speed	3.5m/s (7.8mph)
Cut-out wind speed	12.5m/s (27.9mph)
Survival wind speed	52m/s (116mph)
IEC turbine class	IEC 61400-2 to Class III
Nacelle weight	19kg
Control system	AirforceControl charge controller. Bluetooth and internet-enabled mobile/web app.
Rotor	Diameter: 1.8m (5'11")
Rotor speed	200-800rpm
Blade	Tough glass reinforced nylon turbine blades
Generator	Permanent magnet generator
Gearbox	None
Braking	Two independant brake systems: Eletrical brake and remote-mounted manual brake.
Yaw control	Passive tail vane and rotor
Tower	8m (26'3") gin pole (50mm tube to accept 48.5mm standard scaffold tube) with galvanised wire guy ropes.
Tower Foundation	Ground anchors
Design longevity	20 years
Noise	LAeq 35dB @ 5m/s downwind, LAeq 54dB @ 7m/s downwind
Operating temp range	-20°C - +50°C
Warranty	2 years