



™ AIRFORCE¹

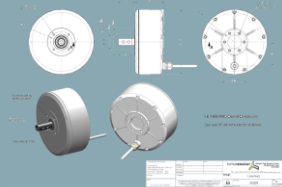
1kW HIGH PERFORMANCE WIND TURBINE

12V, 24V, 48V & Grid-Tie High-Voltage versions

Permanent Magnet Generator designed and manufactured by **FUTUREENERGY**

Wholly designed and manufactured by **FUTUREENERGY** in the UK

Permanent Magnet Generator optimised for wind applications



Wide range of applications

Unique safety features for micro-wind turbine

Fit for purpose

Highly robust design





Low maintenance

Long life in service

Quality and performance

Environmentally sound





-  battery charging
-  off-grid domestic mains
-  solar-wind hybrid
-  grid-tied applications












off-grid locations – telecoms power – hybrid solutions – remote communities – grid-tied applications – deployed personnel support – oil or gas rigs – humanitarian aid - deployed untended equipment - agricultural buildings – boats and barges - pumping solutions – highlands and islands – mobile power units – battery charging – disaster recovery support – mining exploration

Safety:

-  Remote manual Stop Switch (supplied as standard)
-  Automatic Turbine Stop Switch for overspeed protection (option)







Key features:

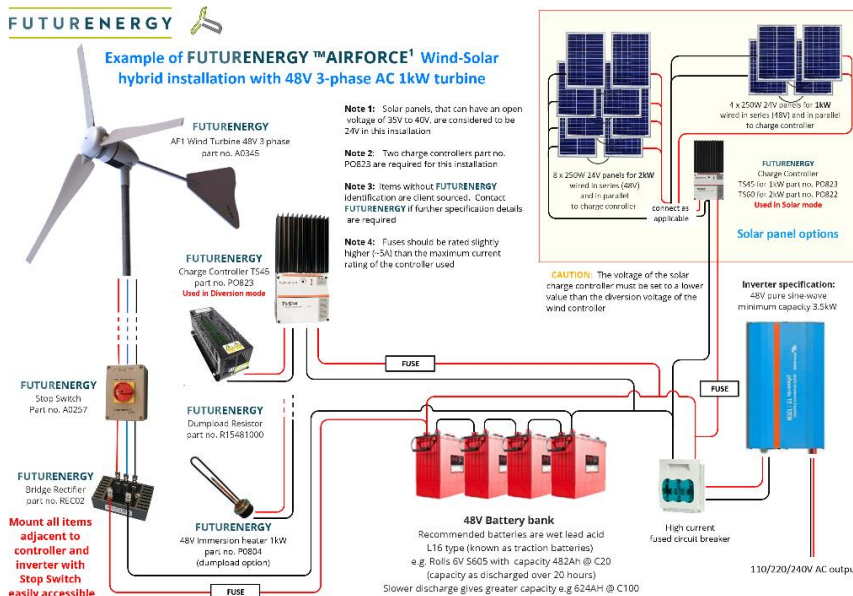
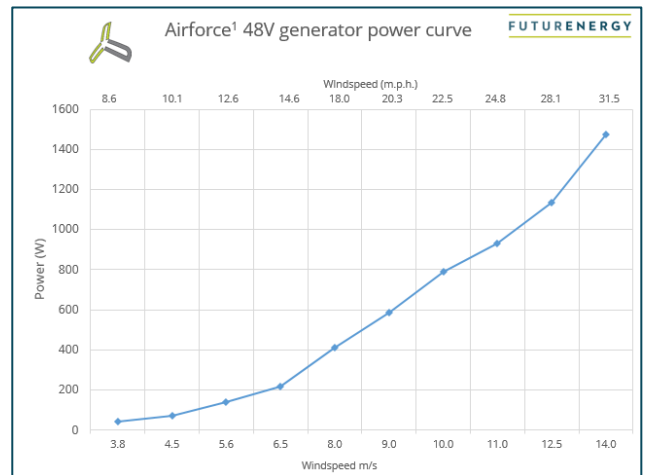
-  Designed & manufactured in the United Kingdom
-  Bespoke high performance Permanent Magnet Generator (PMG)
-  Tough glass-reinforced-nylon turbine blades
-  All bearings sealed for life
-  Corrosion resistant materials throughout
-  Fully compliant with RoHS Directive
-  60 Amp rated slip-ring preventing cable twist
-  Rugged and simple design throughout to prolong life-in-service
-  Supplied with manual stop switch

™ AIRFORCE¹ Technical Specifications

Nominal power output:	All versions 1000W
Start-up wind speed:	~3.5 m/s
Rated wind speed:	12.5m/s
Survival wind speed:	52m/s
Total weight:	18kg
Number of blades:	3
Rotor diameter:	1.8m
Rotor speed (RPM):	200 - 800
Generator type:	3-Phase AC Permanent Magnet
Output type:	3-Phase AC (rectified DC available on request)
Turbine mounting:	50mm tube to accept 48.3mm standard scaffold tube
Noise:	LAeq 35dB @ 5m/s wind speed measured behind rotor LAeq 54dB @ 7m/s wind speed measured behind rotor

Accessories available:

-  Automatic Turbine Stop Switch (ATSS)
-  Inverter for off-grid or grid-tied operation
-  Bridge Rectifier
-  Charge controller for battery management and dump-load diversion
-  Dump load resistor for 12V, 24V & 48V
-  Immersion heater for 24V & 48V



FUTUREENERGY declares that this product complies with:

CE

- LV Directive 73 23 EEC
- EMC Directive 89 336 EEC
- Machinery Directive 98/37/EC
- Fully ROHS compliant

For more information, contact:

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