**AirForce® 1**

1kW MICRO WIND TURBINE SYSTEM

24V & 48V battery charging versions with *AirForce® CONTROL*

**automatic stop - remote control – performance monitoring**

*Complete unit including Permanent Magnet Generator designed and manufactured in the UK by FUTURENERGY*

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**Installation examples:** off-grid locations – telecoms power – hybrid solutions – remote communities – deployed personnel support – oil or gas rigs – humanitarian aid – deployed untended equipment – agricultural buildings – boats and barges - pumping solutions - battery charging

**Key features:**

- “Breakthrough in simplicity and usability”
- **Auto-stop** based range of conditions including turbine rpm, wind speed or battery charge state
- Dump-load, charge controllers and rectifier **not required**
- Reduce installed components and prolong battery life
- Simple electrical installation
- High-performance **own design** Permanent Magnet Generator (PMG)
- Web based portal for **remote monitoring and control**
- Tough glass-reinforced-nylon turbine blades
- All bearings sealed for life
- Corrosion resistant materials throughout prolongs life-in-service
- 60 Amp rated slip-ring preventing cable twist
- Compatible with solar-wind hybrid installation
- Rugged, simple design, minimal maintenance
- System supply includes anemometer

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Designed and manufactured by FUTURENERGY in the UK

Permanent Magnet Generator optimised for wind applications

Worry free operation with AirForce® control protection

Fit for purpose
Highly dependable
Minimal maintenance
Long life in service
Quality and performance

Made in Britain

All details may be subject to change without notice

18107-2 Data sheet AF1 11108A
AirForce® 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: 19kg
Number of blades: 3 (5 blade set option for lower wind areas)
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

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FUTUREENERGY declares that this product complies with:
- LV Directive 73/23 EEC
- EMC Directive 89/336 EEC
- Machinery Directive 98/37/EC
- Fully ROHS compliant

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