

AirForce[®] CONTROL

Turbine monitor and auto-stop system
for 24V & 48V battery charge systems
with AC generators



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

Ideal as retrofit upgrade



WiFi connection and Cloud
configuration included

Provide safety
and security of
operation, no
need to 'weather
watch'



Compatible with wide range of
turbines and systems

Simple & easy to install and
configure

Prolong battery life



Reduce cost of
turbine
ownership

Eliminates need for:

- ▲ dump loads
- ▲ charge controllers

Monitor performance, review
turbine events, calculate
production



- ▲ Automatically stop and restart turbines
- ▲ Protection from adverse weather events
- ▲ Manage battery charge and extend battery life
- ▲ Prolong turbine life and reduce maintenance costs
- ▲ Remotely monitor and log system performance
- ▲ Replace charge control systems and load resistors
- ▲ Retrofit to existing systems
- ▲ Monitor and control via PC, tablet or smart-phone

Installation and operation

The *AirForce[®] control* is installed within a covered area close to and in series with the manual stop-switch and directly to the batteries or other loads. When charge parameters are met, or other controlled parameters exceeded, the turbine is automatically stopped and restarted when conditions return within operational limits or further battery charge required.

Typical applications

- ▲ off-grid battery charging
- ▲ solar-wind hybrid

Web-based
portal provides
remote control
& configuration
and display
and trending of
historical data.

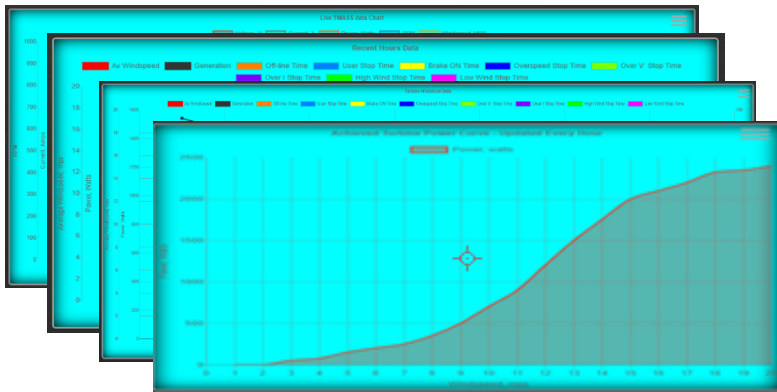


AirForce[®] control web portal

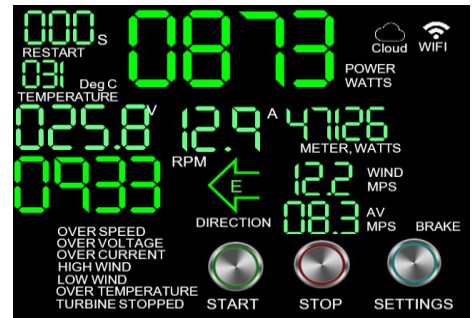
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Monitored, controlled and configurable parameters

Parameter	Monitored	Controlled	Function	User configurable
Wind speed (instant) (m/s) ¹	Yes	Yes	Auto-stop	Yes (max and restart)
Turbine max rpm	Yes	Yes	Auto-stop	Yes (OEM override included)
Max voltage (V)	Yes	Yes	Auto-stop	Yes (max and min)
Max current (A)	Yes	Yes	Auto-stop	Yes
Low wind	Yes	Yes	Prevent start	Yes (power save function)
Restart timer	restart delay timer to prevent start/stop cycling			Yes
Manual stop				
Manual start				
Power (instant) (W)				
Energy (total) (Whrs)				
Wind speed (average) (m/s) ¹				
Wind direction (cardinal and ordinal) ¹				
WiFi				WiFi configuration
Cloud				Cloud configuration



Trending and analysis

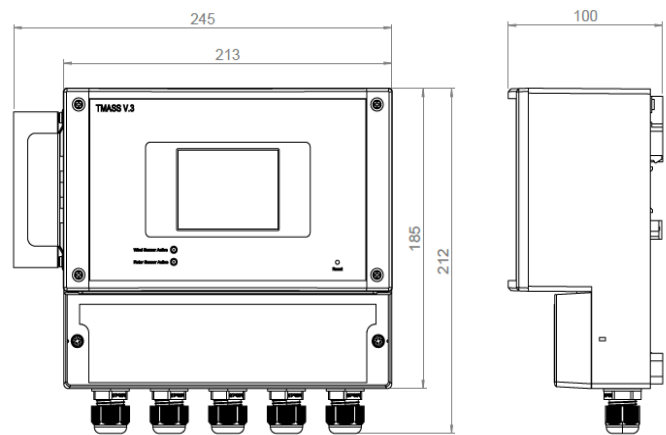


AirForce® control display

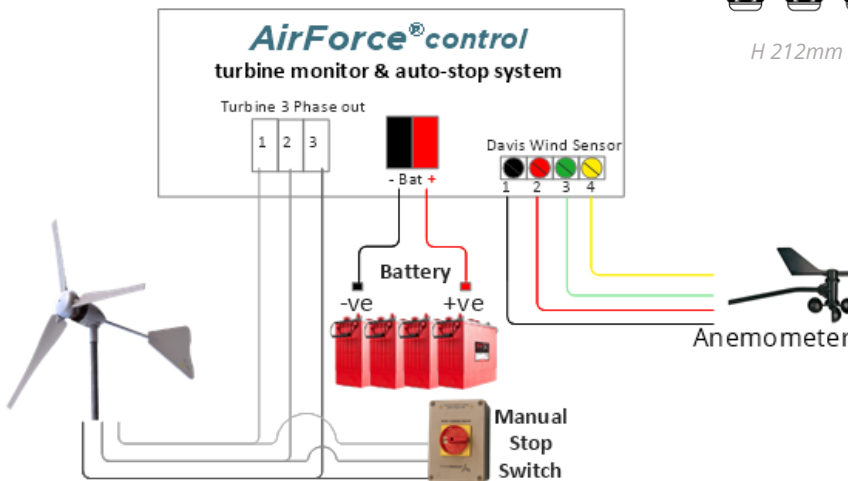
Compatibility: Compatible with 24V & 48V battery charge systems with 3-phase AC generators

Display and interface: A touch screen interface is used to view data and control the system. Remote portal duplicates all functionality and displays historical data

Dimensions: all dimensions in mm



H 212mm x W 245mm x D 100mm (overall)



Example wiring installation

For more information contact:

FUTUREENERGY Ltd
 Ettington Park Business Centre
 Stratford Upon Avon
 Warwickshire
 CV37 8BT

info@futureenergy.co.uk
 +44 (0)1789 450280
 www.futureenergy.co.uk

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



¹ With suitable anemometer e.g. Davis Anemometer as used in Pro2 or 6410 series