

Human Powered Flight

**Rules and Regulations
For**

Formula Flight

THE ROYAL AERONAUTICAL SOCIETY

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The Royal Aeronautical Society

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Objective

Reward groups for designing, building and flying a Human Powered Aircraft.
£1000 prize, awarded annually for the longest flight over 5 seconds duration.

Competition Rules

General

An aircraft can only win the prize once.
A group can re-enter with a new aircraft
An aircraft that entered but did not win can be refined and re –entered.
Existing aircraft that have flown 60 seconds or more are excluded.
The competition flight needs to take place within the UK.

Eligibility

Entry is accepted from [any group](#).
Please contact the RAeS via. conferences@aerosociety.com to verify eligibility of group & aircraft.
A RAeS HPFG Aircraft Specification form and 3 view drawing is to be submitted with an entry.

Aircraft

The aircraft must be powered solely by the pilot(s)
Buoyancy aids e.g. gas filled chambers are not allowed.
No device for storing energy is allowed (apart from for control avionics if used).
The aircraft cannot rely on lift gained by external sources, I.E. strong winds or thermal heating etc, the RAeS HPFG will review this at time of entry.
Control surface may be activated by electric motors powered by an on board battery, but these controls must be operated solely by the pilot(s) and not contribute forward thrust.
Auto stabilization or autopilots are allowed but must be contained within the aircraft.

Flying site

The flying site must be substantially level and subject to approval by the RAeS HPFG.

Risk Assessment

The team must operate in a safe and legal manner.
It is advised that a risk assessment is completed prior to any test or competition flight.

The Competition Attempt

The team must appoint a competition observer; this person should be approved by the RAeS HPFG.
The competition observer will ensure the competition rules are followed and be responsible for timing the flight.
The RAeS HPFG shall be informed two days prior to all competition attempts in order that the RAeS can, if possible attend the flight.
A clear and steady video record of the complete flight must be made available to the RAeS HPFG within 24hrs of the take off, to verify flight and duration.
Flight time and Video to be [uploaded to the RAeS HPFSG website](#).
The pilot must inspect the aircraft and control systems, prior to flight.
The pilot must wear a protective helmet.
The pilot must be aware of wind conditions and confirm it is safe to continue with the flight.

The Competition Attempt cont.

The aircraft must not be towed or winched into the air and must fly below a maximum height of

5m at the lowest point of the aircraft.

Three ground handlers are permitted to assist with take-off; they may support or push the aircraft as they wish.

The flight is timed from the moment that the aircraft leaves the ground and the ground handlers have let go of the aircraft, whichever is the later: until the first part of the aircraft touches the ground. Flight time will be rounded down to the nearest second

Prize

The competition will run yearly from 1st January to 31st December.

The winner will be notified by the RAeS HPFG in the following January.

Disclaimer

In the event of a dispute the decision of the RAeS HPFG will be final.

Any flight is the responsibility of the team. The RAeS accepts no responsibility in the event of an accident.