

The MPBA-FES Handbook 2023

General Rules

1 Objectives

To promote interest and enjoyment in radio controlled fast electric power boating, by running regattas and to be the authoritative voice of fast electrics in the UK within the MPBA.

2 Organisation and Management of the Section

To be carried out by a committee of officers. The running of the section is subject to the Constitution and Rule Book of the Model Power Boat Association which will take precedence over these rules.

3 Officers of the Section

Chairperson, secretary, treasurer, publicity officer, safety officer, and supplementary officers as required.

4 Duties of Officers

4.1 Chairperson

Control of general and committee meetings. Supervision of section regattas.

4.2 Secretary

Administration manager of the section. Organise and confirm regatta dates and venues. Prepare provisional regatta schedules.

4.3 Treasurer

Keep accounts of all financial transactions. Ensure that a copy of the sections yearly statement of accounts is deposited with the General Treasurer of the MPBA within 28 days of the section AGM.

4.4 Publicity Officer

Advertise and Circulate information

4.5 Safety Officer

Advise and control safe operation at all regattas.

4.6 Supplementary Officers

Assistants to the above as necessary. International regatta co-coordinator, to liaise with other countries, and to control and supervise all activities connected with the running of the Fast Electric Section international regattas, if any.

5 Appointment of Officers.

5.1 Time of Appointment

Officers of the section may be appointed at any time.

5.2 More than one candidate

In the event of there being more than one candidate for a particular office and they fail to agree among themselves as to who should withdraw, appointment will be by election at a general meeting.

5.3 Insufficient nominations

In the event of there being insufficient nominations for the post required, a general meeting must be called, to invite nominations.

5.4 Multiple Roles

The posts of chairperson, secretary and treasurer must be held by separate individuals

6 Meetings

6.1 General Meeting

A general meeting may be called by the committee at any time, with a minimum of one month's notice. An agenda must be provided within the notice of meeting.

6.2 Extraordinary General Meeting

An extraordinary general meeting may be called at any time, with a minimum of one month's notice, by:

- 1) The section chairperson
- 2) A majority of section committee members
- 3) A minimum of twelve paid up members of the MPBA.

7 Regattas.

7.1 National Regatta

The Fast Electric Section shall organise an annual National Regatta which, when appropriate, will include world championship eliminators.

7.2 Dates, and formats

Dates, and formats should be provisionally established by the committee each year at such a time as to permit appropriate publicity.

7.3 Entry fees

Entry fees should be set by the committee at such a level and structure as to encourage maximum participation in all events and early pre-entry.

7.4 Special conditions

The officer of the day, chairperson or secretary may change regatta formats to cope with special conditions as they occur.

7.5 SAWS event

The Fast Electric Section shall attempt to organise an annual SAWS event dependent on weather and water availability.

8 Equipment

The section should equip itself for the purpose of running regattas, wherever possible equipment should be borrowed or hired, not purchased.

9 Rule Changes

The rules may be amended at a general meeting or by email vote at other times.

10 The Fast Electric Section Policy Documents

The section operates other policy documents which can be found on our website and must be read and adhered to by every member.

They are:

- 1) MPBA-FES Health and Safety Document and Policy
- 2) MPBA-FES Code of Conduct
- 3) MPBA policy for caring for children and vulnerable adults which can be found here - <https://www.mpba.org.uk/technical-papers/>.

General Competition Rules

- 1) Club members shall operate no device deemed unsafe by a Club Officer
- 2) All "fit and able" members shall share the workload at organised events.
- 3) Members shall adopt a "reasonable" attitude at all times.
- 4) Any Club Officers, their co-opted assistant, or Race Controller may enforce these Rules, Appeals against decisions may be lodged at the next formal meeting.
- 5) During a race meeting, in the event of any protest against a judge's decision, the matter shall be referred to the Officer of the Day, or Race Controller whose decision in the matter is final.
- 6) A person can participate in Club events as a guest at up to three meetings, after which he/she must become a member of The Club, and of the MPBA.
- 7) The consumption of alcohol or recreational drugs will not be permitted during the racing or competition day, any competitor or helper found to be under the influence of either will not be allowed to race or compete or enter the start area and will not be allowed to use the rescue boat or any equipment.

Exceptions/Additions to Naviga Rules

The FES section race in accordance with the Naviga Organisation rules. You will find a link to these rules on our website.

There are a few exceptions/additions to these rules as follows:-

Racing numbers.

For the mini classes only, and at the option of the racer, they may use a slightly smaller racing number which must be a minimum of 70x70mm with a letter height of 65mm with 10mm stroke width.

Battery Options

Additional battery options, over and above the Naviga options are currently permitted as below.

Note: **Yellow highlights** = Non Naviga

	Battery Rules			
Class Name	Option 1		Option 2 ^(b)	Option 3 ^(b)
	Numbers / Configuration	gm	mAh	WattHrs
Mini Mono, Mini Hydro, Mini Eco Expert	LiPo - 2S1P / 2S2P / 3S1P / 3S2P hardcase allowed	113	2700(2S) 1800(3S)	See below
	NiMh - 7 x 2/3 af	any		
	LiFePo - 3 cells 18650 or 2 cells 26650	any		

Mono1, Hydro1, Eco Expert	LiPo - 2S1P / 2S2P / 3S1P / 3S2P hardcase allowed	285	6600(2S) 4500(3S)	See below
	NiMh - 7 SubC	any		
	LiFePo - max 6 cells 3S2P Type 26650	any		
Mono2, Hydro2	LiPo - 4-6S1P / 4-6S2P hardcase allowed	570	6600(4S) 4500(6S)	See below
	NiMh - 8-14 SubC	any		
	LiFePo - max 12 cells 4-6S2P Type 26650	any		
Cat	N/A	N/A	6600(4S) 4500(6S)	See below
Mini Hydro Sprint	LiPo – 3S max	any	any	N/A
	NiMh – 7S max	any		
	LiFePo – 3S Max	any		

Note: the same cell configurations apply as in Option 1.

Where Option:

1. Naviga 2019 battery rules (can remove outer packaging. No capacity restrictions. 30mm min cables required.)
2. Unlimited weight (No alteration to pack. No weight restrictions)
3. Energy Limiters. With Naviga rules as defined from 1 Jan 2019 ie.
 - a) Energy bands
 - Mini Classes = 21Whr(1260 WMin)
 - Mono1/Hydro1/ECO Expert = 60Whr(3600 WMin)
 - Mono2/Hydro2/Cat = 120Whr (7200 WMin)
 - b) No minimum or maximum battery weight
 - c) Ramp down time = 5 seconds
 - d) Dead time = 60 seconds (Note: Crossing the line after the dead time will result in a red card)

Additional Classes

Additional classes, over and above the Naviga options are currently permitted as below.

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Class – Physical Features

Class Name	Style	Length Max(mm)	Length Min(mm)	Weight Max(gm)	Weight Min(gm)	Motor
Cat	Catamaran Surface piercing prop	None	None	None	None	Any
Hydro 1 Hydro 2	Hydroplane, Surface piercing prop	None	None	None	None	Any
Mini Hydro	Hydroplane, Surface piercing prop	450	None	None	450	Any

Mini Hydro Sprint	Hydroplane, Surface piercing prop	450	None	None	Any	Any
Mini Mono	Mono Hull, Surface piercing prop	450	None	None	450	Any
Mono 1 Mono 2	Mono Hull, Surface piercing prop	None	None	None	None	Any
Mini Eco Expert	Mono Hull, Sub Surface prop	430	None	None	450	Any
ECO Expert	Mono Hull, Sub Surface prop	None	None	None	1000	Any

Class – Race Format

Class Name	Course (See Apdx' 1)	Penalties		Mill Time	Race Time	Overrun Time	Format (See below)
		Missed Buoy	Jump Start				
Cat Hydro 1 Hydro 2 Mini Mono Mono 1 Mono 2 Mini Hydro	Naviga oval CW	1st = 5secs, others = 1 lap each	1 lap	10 secs	6 mins	60 secs	1
Mini Hydro Sprint	Naviga oval CW	DSQ	DSQ	10 secs	N/A	N/A	3
ECO Expert Mini ECO Expert	Naviga triangle CCW	1st = 5secs, others = 1 lap each	1 lap	None	6 mins	60 secs	2

Formats:

- After a mill start, race continues for 'Race Time'. Entrant continues after 'Race Over' signal to complete that lap. The time taken to finish that lap is recorded. The winner of a race is the one with the greatest number of laps and if drawn, the lowest 'Seconds Over'. The first line crossing is the race start and does not count towards the number of laps. Turning around trying to avoid missing a buoy is not allowed.
- There is no mill start. The race continues for 'Race Time'. Entrant continues after 'Race Over' signal to complete that lap. The time taken to finish that lap is recorded. The winner of a race is the one with the greatest number of laps and if drawn, the lowest 'Seconds Over'. The first line crossing counts towards the number of laps. If a buoy is passed on the wrong side, the competitor has the right to turn his model and drive around the buoy on the right side, provided that he thereby does not hinder the other competitors

3. After a mill start, race continues for six laps. The winner of a race is the first to complete the six laps. The first line crossing is the race start and does not count towards the number of laps.