

# BLUEDRIVE K POWER FIN™

## User's Guide

PF-240K

### **WARNING**

For your own safety and that of your equipment, make sure to take the following precautions. Failure to follow warning notices and instruction may result in property damage, serious injury or death. Please keep the manual and read it carefully before using the product; If the manual is lost, please contact our after-sale service center.



## SAFETY PRECAUTIONS

1. This product is only for providing power for water leisure products and only limited to be used in water. It is forbidden to use it for other purposes.
2. When using the product, it is necessary to consider the use precautions of floating products, and the rules of the local waters and the use attention points.
3. When using the product, it is necessary to consider that the depth of the water is enough to float the devices of the power fin, so that it will not be damaged.
4. When using the product, it is required for each passenger to take with the lifejacket approved by CGA (coast guard approved) or similar PFD device and oars.
5. When using the product, a proper emergency stop leash should be tied with user's ankle.
6. Do not use this power fin in the fast flowing rivers, strong currents, or sudden storm or tide.
7. Do not use the product after taking pills or alcohol.
8. This appliance can be used by children aged from 8 years and above and persons with reduced physical sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
9. This product can not be used by children under 8 years old; and children should be in supervision to make sure they do not play with it.
10. Do not modify the product or add other parts to it in any way. If any parts is damaged, please contact after-sale service center.
11. If there is seaweed or fishing line wrapped on the propeller, or it is trapped in the mud, please turn off the power immediately and clear it up.
12. If touch any stones or obstacles in the water in using process, turn direction timely to avoid falling into the water.
13. Wash the power fin and its motor with fresh water; and do not put it in sea water or salt water to avoid damage to the motor.
14. This product does not include batteries. The power fin must only be supplied with 12V batteries; and always follow the batteries use principle and matters needing attention.
15. Never charge or use the product in thunderstorms and lightning conditions.
16. It is necessary to check whether each connection is firm before each use.
17. The power fin only be supplied at SELV (Safety Extra Low Voltage), can be applied only with remote control. If user needs to replace them, please contact the appointed after-sale service center.
18. The electric charging port of the control box should be either connected with the power fin, or connected with charger, or cover its lid to avoid short circuit damage caused by other metals or moisture.
19. When the remote control and the charger are not used for a long time, it is necessary to disconnect power supply.
20. When it is not in use, it should be stored under the temperature of -15°~45° and avoid direct sunlight.
21. If the power fin is scrapped or need to be replaced with new one, it is necessary to follow the principle of recycling or return it to the dealer.
22.  This is class III appliance, it must only be supplied at safety extra low voltage.

**FCCID: 2AVFRPF-240K**

## **FCC statement**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation.

- If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
  - Reorient or relocate the receiving antenna.
  - Increase the separation between the equipment and receiver.
  - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
  - Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

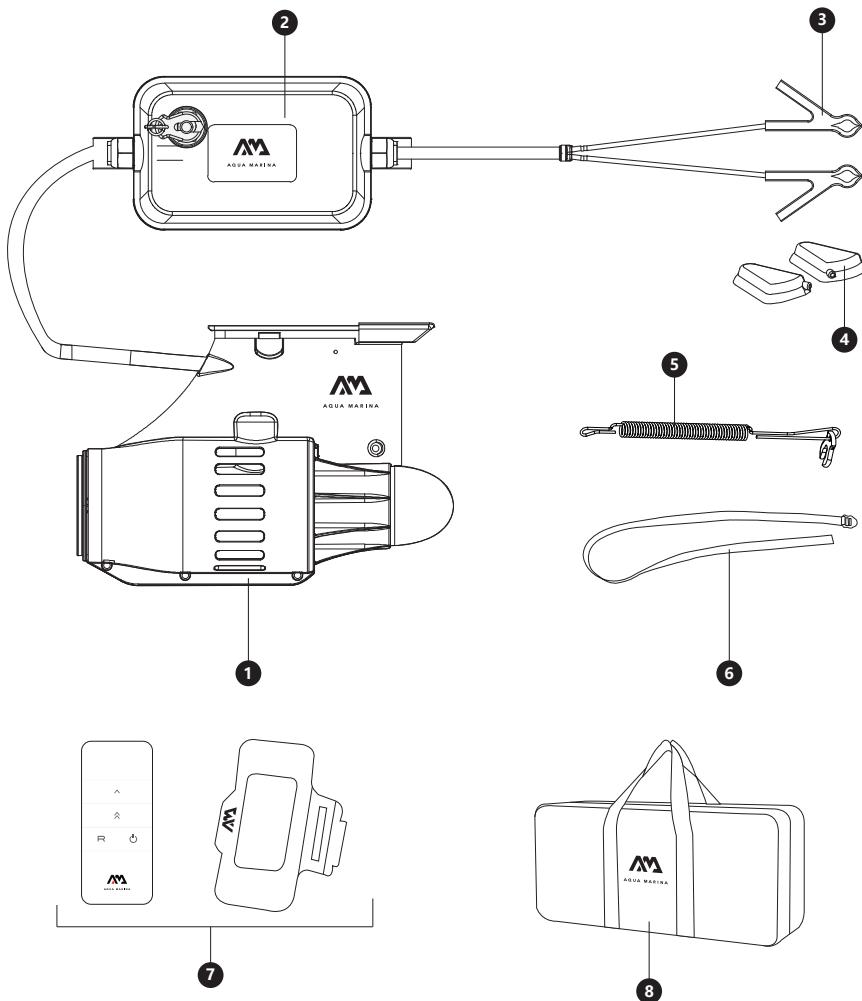
**CAUTION:** Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

## **RF EXPOSURE WARNING**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

The equipment must not be co-located or operating in conjunction with any other antenna or transmitter.

# COMPONENTS



① Underwater Jet  
300 x 210 x 110mm (11.8" x 8.3" x 4.3")

② Control Box  
230 x 122 x 64mm (9.1" x 4.8" x 2.5")

③ Battery Terminal  
④ Waterproof Cover of Battery Terminal

⑤ Emergency Stop Leash  
⑥ Retaining Strap (1.5m)  
⑦ Wireless Remote Control and Arm Band  
⑧ Carry Case  
610 x 282 x 175mm (24" x 11.1" x 6.9")

## TECHNICAL PARAMETERS

<b>Underwater Jet</b>	<p><b>Motor Power:</b> 12V DC, 240W</p> <p><b>Operating Speed:</b> 4-6km/h</p> <ul style="list-style-type: none"><li>• Low speed  : Max. Speed 4km/h</li><li>• High speed  : Max. Speed 6km/h</li><li>• Reverse  : Max. Speed 1.8km/h</li></ul> <p><b>Protective Cover Material:</b> Flame retardant ABS</p> <p><b>Dimension:</b> 300 x 210 x 110mm (11.8" x 8.3" x 4.3")</p> <p><b>Weight:</b> 2.55 kg (5.6 lbs)</p>
<b>Control Box</b>	<p><b>Material:</b> IP68, flame retardant PC + ABS</p> <p><b>Dimension:</b> 230 x 122 x 64mm (9.1" x 4.8" x 2.5")</p> <p><b>Net Weight:</b> 0.6kg (1.3 lbs)</p> <p>With circuit board and emergency stop leash</p>
<b>Interface</b>	Battery terminal with waterproof cover
<b>Remote Control</b>	<p><b>Model:</b> RC-23BK</p> <p><b>Operation Frequency Range:</b> 2400~2483.5 MHz</p> <p><b>Radio Frequency Transmitting Power:</b> 36 mW</p> <p><b>Max Output Power:</b> 6.18 dBm (E.I.R.P)</p>
<b>Packing Dimension</b>	62 x 29.5 x 18.5cm (24.4" x 11.6" x 7.3")
<b>Packing weight / Net weight:</b>	5.0 kg (11.0 lbs) / 3.2 kg (7.0 lbs)

# INSTALLATION AND INSTRUCTION

1. Open the packing box and check whether the components are complete

2. Install power fin into kayak/iSUP (as shown in the picture)

2.1 Insert the bottom of power fin into the fin base of kayak/iSUP;

2.2 Insert the slide in push-in pin into the fin base;



2.1



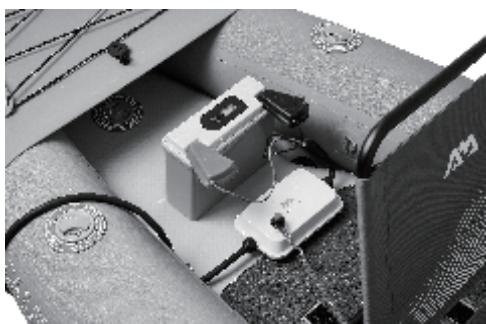
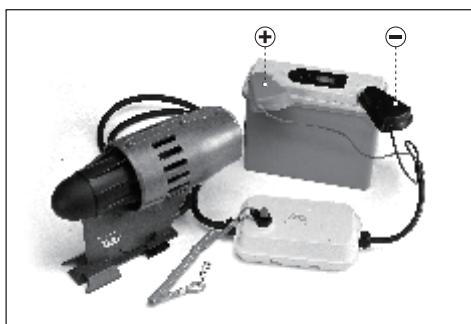
Insert push-in pin

2.2

3. Connect the Control Box with the External Battery

3.1 The power fin package does not include batteries, so please configure the battery pack based on your personal needs. The power fin must only be supplied with 12V batteries.

3.2 When connecting the power cord with the external battery, ensure the red battery terminal must be connected to the positive pole of the battery, and the black battery terminal must be connected to the negative pole.



3.3 Fasten the control box to the external battery with retaining strap .



#### 4. Recommended Storage Battery Specifications

Voltage	Max. Power	Working Current		Battery Specifications	Estimated Runtime (H)
		Gear	Working Current		
12V	240W	Low Speed	10	12V×80AH	8
		High Speed	18.5		4
		Reverse	7.2		11
12V	240W	Low Speed	10	12V×60AH	6
		High Speed	18.5		3
		Reverse	7.2		8
12V	240W	Low Speed	10	12V×40AH	4
		High Speed	18.5		2
		Reverse	7.2		5.5

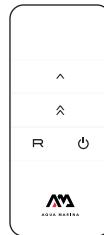
#### 5. Remote Control

- 5.1 Please install the battery (23A 12V) before first use.
- 5.2 Load the remote control into waterproof sleeve, and put it on the arm (as shown in the following picture).
- 5.3 Note: For the remote control, the effective distance is under 10 meters.



#### 5.4 Operations of Remote Control:

- a.  : Start and operate at low speed.
- b.  : Start and operate at high speed.
- c.  : Start and operate at reverse gear.
- d.  : Stop. (Note: This is NOT a “start” button.)



The user can do remote operation on kayak/iSUP products.

#### 5.5 Pairing Operation

In most cases, pairing is not needed.

When there are over 2 devices, please follow pairing operations as below:

- a. Install the remote control battery before pairing.
- b. Simultaneously press   these 2 buttons on the remote control until the indicator light flashes twice.
- c. Then, connect the emergency stop leash to the control box and energize the control box for pairing. And the remote control could be used normally.

### 6. Emergency Stop Leash

6.1 The emergency stop leash works as both power switch and emergency stop switch.

6.2 For standby mode, clutch the emergency stop leash in the right position of the control box for pairing.

6.3 To shut the battery off, pull out the emergency stop leash directly.

6.4 Before each use, always connect the emergency stop leash. If the red pull cord is removed from the control box in emergency, the motor will immediately stop to avoid any danger.



6.2



6.4

#### 7. Storage Temperature for Control Box

Recommended storage temperature is 18-25°C.



# MAINTENANCE

Maintenance Part	Time Interval	Maintenance Process
Remote Control	Every month	If you don't use it for a long time, please remove the battery;
Underwater Jet	After each use	Use fresh water to wash the jet and dry; if there are weeds and fishing line on the propeller of the power fin affecting the use, you can open its net cover and disassemble the propeller to clean it. After all weeds and fishing line are cleaned, assemble all parts together.
Control Box	After each use	Wipe it with a rag and dry it
Control Box	In any case	Do not open the control box in any cases.
The back side of propeller.	After each use	Disassemble propeller to check whether there are fishing lines, weeds or other residues wrapped in propeller or spindle, which will result in a decline in its power.
The connection section of appliances.	Before and after each use	Check whether there is a scratch on the wire, please contact the after service center for replacement if needed; If there is water mark or other foreign body, please clean it up.

## GUIDANCE ON PROBLEMS

No.	Problem description	Solutions
1	The remote control does not work	Check whether the battery is good and loaded properly.
2	The booster does not work	Check whether the emergency stop leash is assembled.
3	The operation of propeller stagnate	<ol style="list-style-type: none"><li>1. Check whether there are fishing lines, weeds or other residues wrapped in propeller, if yes, please clean it.</li><li>2. Check whether there is electricity in the control box.</li><li>3. Check the connection end of the control box to make sure the connection is reliable and free of debris.</li></ol>
4	The booster is with big noise and serious shaking.	<ol style="list-style-type: none"><li>1. Check whether there are fishing lines, weeds or other residues wrapped in propeller, if yes, please clean it.</li><li>2. Check whether the propeller is destroyed, if yes, please contact local after-sale service center.</li><li>3. Check whether the screw looses, if yes, please contact local after-sale service center.</li><li>4. Disconnect the power supply and stir the propeller to check whether the propeller can turn freely and smoothly; Any obstacle or lock means there is foreign body in the motor, please contact local after-sale service center.</li></ol>

# DISPOSAL AND ENVIRONMENTAL PROTECTION



This marking indicates this product should not be disposed with other household wastes. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. You can obtain information on disposal from your local authorities.

To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

## WARRANTY AND AFTER SERVICE CONTACT INFORMATION

Product warranty is 1 year; and it is not within the scope of the warranty for any modification or use beyond the scope of product use, or any damage caused by wrong operation not in accordance with the manual.



AM Official Site



AM HOW-TO Guide



AM Service Center List