

生产厂家:长沙市徐记贸易有限公司
生产地址:湖南省长沙市芙蓉区马王堆街道万家丽
北路三段439浏阳河畔家园1栋118-119号
E-mail:72068@qq.com
Made in China



太平洋飓风微信公众号



一直努力 直至伟大

DC Variable Pump

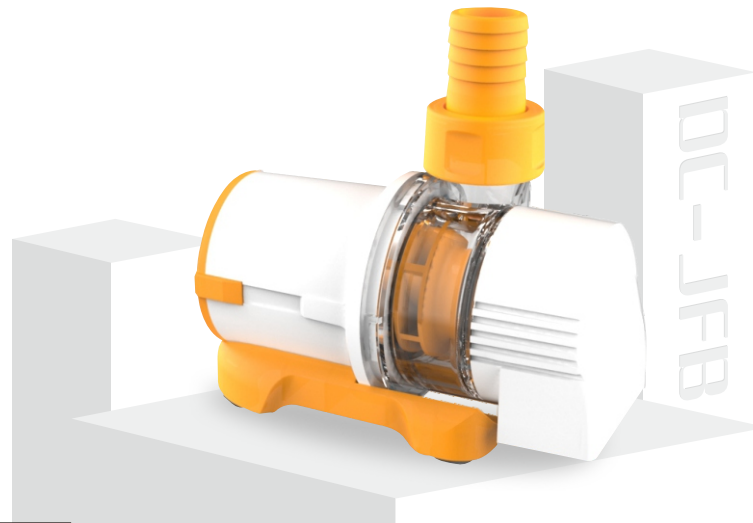
智能直流变频水泵

QUIET

POWERFUL

Instructions 使用说明书

使用前请仔细阅读说明书
并妥善保存,
以备日后参考之用!



目录

Contents

02	产品特点	01	Feature	10
02	产品参数	02	Product parameters	10
03	产品使用说明及功能说明	03	Instrucions	11
05	基本故障排除表	04	Basic trouble shooting table	13
06	流量扬程曲线图	05	Flow rate curve	14
08	安装说明	06	Installation instrucion	16
08	维护使用说明	07	Maintenance	16
08	注意事项	08	Notice	16
09	产品保修卡	09	Warranty Card	17

产品特点

- 水泵具有三种模式:恒流调速模式、造浪模式、喂食模式,功率多档可调使之适用于各种大小鱼缸;
- 水泵可以在上水的同时可以实现造浪功能;
- 真正的低压无刷直流变频控制技术,采用先进的6级无传感器三相智能驱动,通过调节占空比(PWM)来改变水泵的转速以及功率,软启动,安全可靠寿命长,噪音低;正弦波技术平滑降噪,安心舒适;
- 陶瓷轴芯,碳纤维轴套,保证了水泵的超长使用寿命;
- 水泵为低压直流24V,安全可靠,效率高,体积小;
- 水泵电源适配器为宽电压输入(AC100~240V 50/60Hz),可以适合多种电网,且可避免电压波动对水泵的影响;
- 水陆两用,适用于淡水和海水。

产品参数

型号	DC-JFB-1500L	DC-JFB-2500L	DC-JFB-3500L	DC-JFB-4500L	DC-JFB-6500L	DC-JFB-8500L	DC-JFB-11000L	DC-JFB-13000L
流量	1500L/H	2500L/H	3500L/H	4500L/H	6500L/H	8500L/H	11000L/H	13000L/H
扬程	3M	2.5M	3.5M	4M	5M	6M	5M	6M
最大功率	19W	28W	36W	45W	65W	80W	95W	105W
最小功率	4W	7W	8W	10W	20W	20W	20W	30W
电压	DC24V	DC24V		DC24V			DC24V	
尺寸	115.7*60*104.5MM	127.9*73.6*125.1MM		178.4*81.8*148.2MM			210.5*96.5*174.4MM	
出/进水口	15MM/20MM	20MM/25MM		25MM/32MM			32MM/40MM	

产品使用方法及功能说明



常见故障代码显示:

ERR1	软件过流保护
ERR2	硬件过流保护
ERR4	欠压保护
ERR5	过压保护
ERR6	缺相保护
ERR7	堵转/空转/卡死保护

M 水泵通电之后即进入恒流工作模式1, 设定起始上水量, 也就是(恒流模式), 例如设定为1-10, 然后再通过M按键切换第一位数码管显示2, 即为上水脉冲造浪模式, 再次切换M按键第一位数码管显示3, 即为营养传输模式。

注意:水泵造浪模式原理:水泵设定一个起始的上水档位以一定频率变化到最大档位。因为模式2和3后面的数字是设定频率, 所以必须要有一个起始档位的设定。模式1即是恒流模式, 也是起始上水量的设定。

三种模式对应如下:

模式一(恒流模式)

- 选择模式一(恒流模式)时, Constant 灯亮起, 档位指示灯显示为1-XX, 传统上水模式, 分20个档位;
- 通过+按键调节水泵的功率和, 上水量, 用户根据实际需求来调节档位。

1-01 最小功率
1-02
1-03
⋮
1-19
1-20 最大功率

模式二(脉冲造浪模式)

- 首先设定模式一(恒流模式)为起始上水量, Constant 灯亮, 档位指示灯显示为1-XX, 模式一必须设定在1-01到1-15之间;
- 按M键切换到模式二(脉冲造浪模式), Pulse 灯亮, 档位指示灯显示为2-XX, 在传统上水模式中增加20种脉冲造浪模式;
- 最快到最慢频率之间可按+ -键自由设定。

2-01 最快频率 
2-02
2-03
⋮
2-19
2-20 最慢频率 

模式三(营养传输造浪模式)

- 首先设定模式一(恒流模式)为起始上水量, Constant 灯亮, 档位指示灯显示为1-XX, 模式一必须设定在1-01到1-15之间;
- 按M键切换到模式三(营养传输造浪模式), Gyre 灯亮, 档位指示灯显示为3-XX, 在传统上水模式中增加20种脉冲造浪模式, 即上水量从最小—最大—最小为一个变化周期;
- 1档至20档的周期变化时长可按+ -键自由设定;

3-01 最快频率 
3-02
3-03
⋮
3-19
3-20 最慢频率 

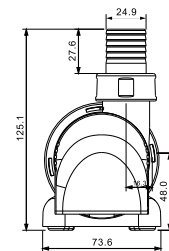
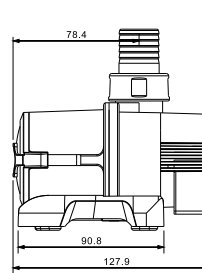
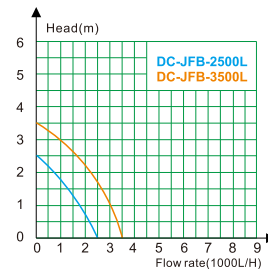
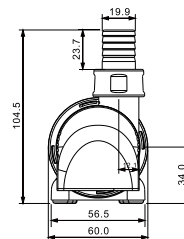
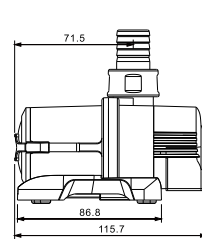
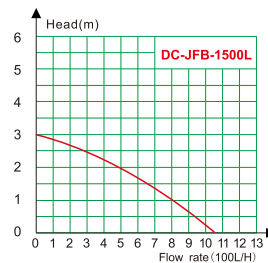
为喂食模式, 设定为此模式时, Feed 灯亮起, 档位指示灯显示为F-XX, 按此键分四段控制, 前三段可设定暂停10/20/30分钟, 第四段为关闭水泵, 显示相对应为 F-10 F-20 F-30 OFF

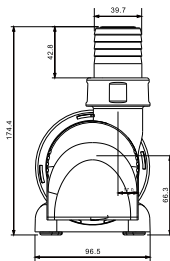
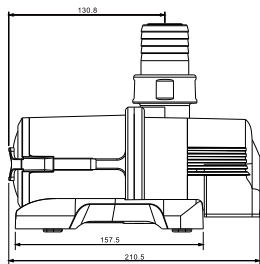
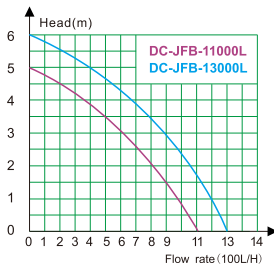
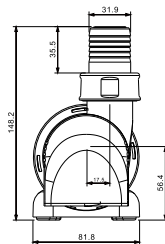
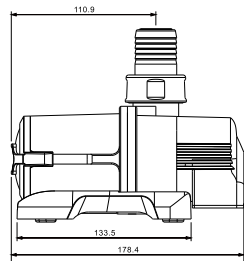
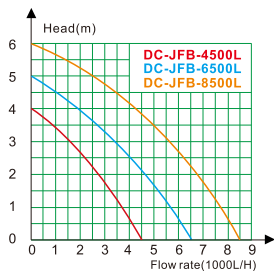
+ - 按+ -键可自由调节1至20档位, 显示相对应为(例如: 1-01 1-02 1-03...1-19 1-20)

基本故障排除表

现象	原因	解决办法
所有灯不亮	电源问题	更换电源
电源指示灯时亮时灭	电源问题	更换电源
调节档位到最高和最低都无反应	电源问题	更换电源
控制器显示ERR7	缺水/卡死	首先拆开水泵，打开盖子用手拨动叶轮，转的有卡顿就是卡死，清理干净即可，如果是轴套卡死可参照视频操作解决，如果是水泵腔体变形需更换泵体。
控制器显示ERR2/ERR4	控制器保护报警	更换控制器
控制器显示ERR6	缺相保护	更换泵头
电笔测试灯亮 怀疑漏电	感应电7V可使电笔灯亮	水泵为24V低压直流电，人体无感无害，如果漏电电人需排查其它电子产品

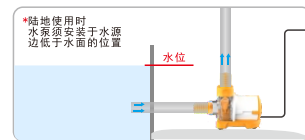
流量扬程曲线图





安装说明

- 包装中产品组成有:潜水泵泵体、智能控制器、适配器、过滤罩、两套转接头;
- 将过滤罩和转接头分别装在泵体的进水口和出水口上;
- 接好泵体与控制器的3针快速连接线, 再把适配器的DC插头接好控制器, 将适配器插上插座。



维护使用说明

- 定期清洗水泵以确保其有效动作;
- 控制盒表面有水后请用干布擦干, 防止水进入控制盒;
- 当水泵不转时首先检查控制盒是否通电, 拆开螺丝拔出前盖, 检查水泵腔体内是否有杂质;
- 用软布擦拭叶片, 并用水清洗泵体污物;
- 此产品适用于户内, 严禁控制盒与适配器浸入水中, 以免造成不必要损失;
- 定期检查会增加水泵的寿命。

注意事项

- 为保证产品性能, 禁止无水运行;
- 控制盒的安装位置, 注意防水, 防止水花飞溅到控制盒上;
- 非专业人员请不要随便打开控制盒与适配器, 以免损坏。

产品保修卡

- 一、请保留购货凭证及保用证书，并在维修时一并出示。
- 二、以下条款不属于保修范围：
 - 因不规范操作:错误安装、摆放、搬运造成的损坏；
 - 用户不当修理造成的故障；
 - 室内以外区域使用造成的故障；
 - 不可抗拒的自然灾害以及人为原因造成的故障；
 - 额定电源(电压及频率)意外造成的故障。

免责声明：
· 水泵需要定期两个月清洗一次，否则因为水中杂质，鱼便，钙澡过多导致转子转动受阻转子和泵腔刮擦,导致电机过载温度过高从而泵体变形这种变形不属于质保范围；
· 水泵控制器以及电源适配器不属于防水器件避免潮气和水。进水属于非质保范围；
· 水泵严禁使用超压电源，损坏不在质保范围；
· 系列产品质保期为2年。

*以上保用条款解释权归本厂所有。

用户填写资料				
产品名称			购买日期	
产品编号				
顾客	姓名		电话	
	住址			
零售商	姓名		电话	
	住址			
维修记录	日期	故障及维修说明	用户签字	维修人员
检验员：		检验日期：		

Feature

- With three modes: Steady flow rate Mode (20 Levels), Wave makingmode (20 Levels), Feed Mode,The outputpower could be adjusted to match different size of fishbowl.
- The Pump have two function water dispensing and wave making.
- With SIX–Pole Intelligent DC three–phase drive (without sensor),
- Low voltage(DC24V) operation ,Safe, Long life expectancy . Sine wave control to lower the noise.
- With Ceramic shaft & carbon fiber shaft sleeve to make sure the motor'slong expectancy.
- The input voltage if adapter is widely from AC100 to AC240V/60Hz) whichcan be suitable for many countries
- Suitable for both fresh water and Salt water , amphibious.

Product parameters

Model	DC-JFB-1500L	DC-JFB-2500L	DC-JFB-3500L	DC-JFB-4500L	DC-JFB-6500L	DC-JFB-8500L	DC-JFB-11000L	DC-JFB-13000L
Flow rate	1500L/H	2500L/H	3500L/H	4500L/H	6500L/H	8500L/H	11000L/H	13000L/H
Head	3M	2.5M	3.5M	4M	5M	6M	5M	6M
Max Power	19W	28W	36W	45W	65W	80W	95W	105W
Min Power	4W	7W	8W	10W	20W	20W	20W	30W
Voltage	DC24V	DC24V		DC24V			DC24V	
Dimension	115.7*60*104.5MM	127.9*73. 6*125.1MM		178.4*81.8*148.2MM			210. 5*96. 5*174. 4MM	
Outlet/Inlet	15MM/20MM	20MM/25MM		25MM/32MM			32MM/40MM	

Instructions



Common Faults:

ERR1	Software Overcurrent Protection
ERR2	Hardware Overcurrent Protection
ERR4	Undervoltage Protection
ERR5	Overvoltage Protection
ERR6	Phase Loss Protection
ERR7	Locked-rotor protection Dry running protection K-Jam protection

M Power on the pump it will go into mode 1 (Constant flow Mode) directly, which also set the starting flow for Mode 2 (Pulse wave mode) and Mode 3 (Cyre wave mode). Press M button to change the mode. 1-XX mode 1 (Constant flow Mode), 2-xx mode 2 (Pulse wave mode), 3-xx mode 3 (Cyre wave mode).

NOTE: How the pump create wave: Set a starting flow for the pump and the pump will change from start flow to max flow with different frequency. Before setting Mode 2 and Mode 3, should set the starting flow by Mode 1.

3 modes as the following:

Mode 1 (Constant flow mode)

- When selecting Mode 1 (constant flow mode) the **Constant** light on. The indicator display as 1-xx. Which have 20 levels.
- Adjust the pump power level by press "+" or "-", the user can adjust the power level according to their needs.

1-01 Min. power consumption

1-02

1-03

...

1-19

1-20 Max. power consumption

Mode 2 (Pulse wave mode)

- First set starting flow. Mode 1, the **Constant** light on. The intensity should between 1-01 to 1-15.
- Press "M" to mode 2 (Pulse wave mode). the **Pulse** light on. And the indicator display as 2-xx. Which has 20 levels of frequency.
- Press "+" and "-" to set the wave frequency.

2-01

2-02

2-03

...

2-19

2-20 The slowest frequency

Mode 3 (Cyre wave mode)

- First set starting flow. Mode 1, the **Constant** light on. The intensity should between 1-01 to 1-15.
- Press M to mode 3 (Pulse wave mode). the **Cyre** light on. And the indicator display as 3-xx. Which has 20 levels of frequency.
- Press "+" and "-" to set the wave frequency.

3-01

3-02

3-03

...

3-19

3-20 The slowest frequency

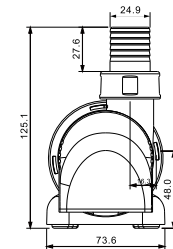
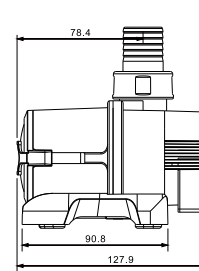
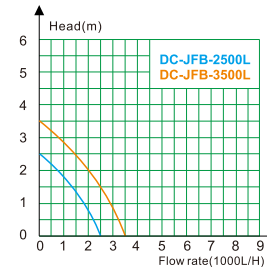
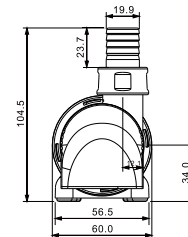
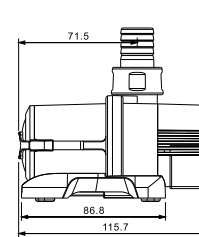
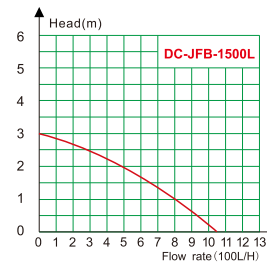
Feed mode: Press **Power/Feed**, the pump will go into feed mode. the **Feed** light on. Press one time indicator shows F-10, it means pause 10 min, then press second time shows F-20, it means pause 20 min, Press third time F-30, pause 30 min and press fourth time power off. Press **Power/Feed** again it will go back to work again.

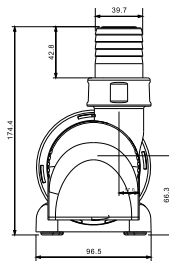
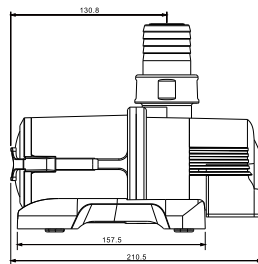
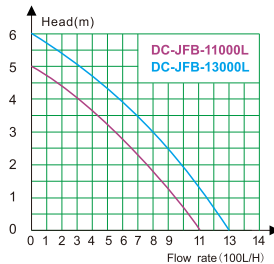
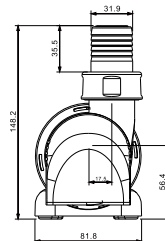
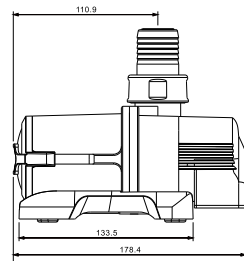
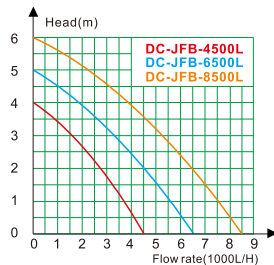
Press "+" and "-" button to adjust the power level or frequency from level 1 to 20.

Basic trouble shooting table

Failure phenomenon	Reason	Solution
All lights off	Power supply problem	Replace the power supply
The power indicator is on for a while and off for a while	Power supply problem	Replace the power supply
It doesn't work when adjusting the gear to the highest and lowest	Power supply problem	Replace the power supply
The controller displays ERR7	Water shortage / rotor stuck	First disassemble the water pump, open the front cover and move the impeller by hand. If it is stuck, clean it up. If the shaft sleeve is stuck, please refer to the video operation to solve it. If the pump cavity is deformed, replace the pump body.
The controller displays ERR2/ERR4	Controller protection alarm	Replace the controller
The controller displays ERR6	Loss phase protection	Replace the pump head
Electric pen test light is on, suspected of leakage	Induction electricity 7V can make the electric pen light on	The water pump is 24V low-voltage direct current, which is harmless to the human body. If there is leakage, check other electronic products

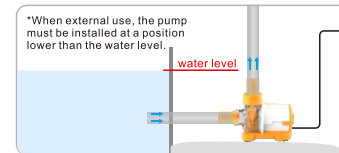
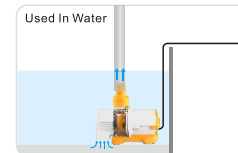
Flow rate curve





Installation Instruction

- The whole pump unit include pump body,controller,adapter,fier and two sets outlet
- Install the filter cover on to the pump's inlet,install the out let adapter onto the pump's outlet
- After connected the pump and controller 3-pin quick connectors, thencontact the adapter with the controller(DC plug),and contact the adapter with AC wire(AC Plug)



Maintenance

- Please clean the wave pump regularly to ensure their effective
- If there have water in the surface of the controller, Please wipe with a dry cloth to Prevent water from entering the control box.
- When the pump does not turn, firstly, to check if the control box is charged with electricity, then remove the screw and pull out the front cover, to check the pump wall whether there are impurities or not.
- This product is used in indoor,Don't let the controller and adapter fall into the water so as to cause unnecessary losses

Notice

- Dry run not allow In order to guarantee the product performance
- Keep the controller and adapter away from water and water splash
- To avoid damage please don't open the controller and adapter

Product parameters

Please keep the warranty card, present at the time of repair.

Following items are not covered by warranty:

- Non standard operation: Incorrect installation and placement, damage caused by transport.
- Damage caused by improper repair faults.* Improper outdoor use.
- Malfunction caused by irresistible natural disasters.
- Failure caused by accidents of rated power (voltage and frequency).
- Reef Royal series warranty: 2 Year.

User's Information				
Product Name			DOP	
Product No				
Customer	Name		Tel	
	Add			
Retailer	Name		Tel	
	Add			
Maintenance records	Date	Remarks	Sign	Maintenance person
Checker:		Check Date:		