



# 深圳市中科世纪科技有限公司

## 产品规格书

### Product Specification

产品型号: 无刷直流水泵 DC55K

发布日期: \_\_\_\_\_

版本号: V1.0

供方 VENDOR			客户 CUSTOMER		
编制 PREPARED	审核 CHECKED	批准 APPROVED	编制 PREPARED	审核 CHECKED	批准 APPROVED

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[www.smalldcpump.com](http://www.smalldcpump.com)

## 一. 产品特征简介 Product Features

1	产品名称 Product name:	无刷直流水泵 DC55K Brush-less dc pump DC55K
2	型号 Model No:	DC55K
3	重量 Weight:	0.52kg
4	寿命 Life span:	≥30000h(连续 continuous)
5	防护等级 Waterproof Grade:	IP68
6	颜色 Color:	黑色 Black
7	认证 Certificate:	CE,ROSH
8	壳体材料 Material of pump	PPS+30%GF
9	噪音 Noise class:	≤35dB
10	工作压力 Bearing pressure:	≤0.5MPa
11	绝缘等级 Insulation grade:	H Grade (180°)
12	工作原理 Working principle:	离心泵 Centrifugal pump
13	用途 Application:	电动汽车散热系统, 循环散热系统 ECO Car cooling system, Cooling circulation system

## 二. 应用范围 Range of application

1	使用液体类型: Liquid Type:	油性介质, 水, 酸碱盐以及其他流动性液体 Water, oil, or normal acid/ alkaline and other liquids(need to test)
2	使用液体温度: Liquid Temperature:	-30° —100° (超过 80° 需特殊定制) -30°—100°(Above 80° need special customization)
3	调速方式: Power regulation function:	<ul style="list-style-type: none"> <li>● PWM 调速: 幅值 5V 50-800HZ 可定制</li> <li>● Speed adjustable by PWM (5V,50~800HZ) can be customized</li> <li>● 0-5V 调速, 电位器 (4.7k~20K) 0~5V analogical signal or potentiometer (4.7k~20K)</li> </ul>
4	使用电源类型: Power:	直流电源, 太阳能板, 蓄电池 PSU,Solar panel,Battery

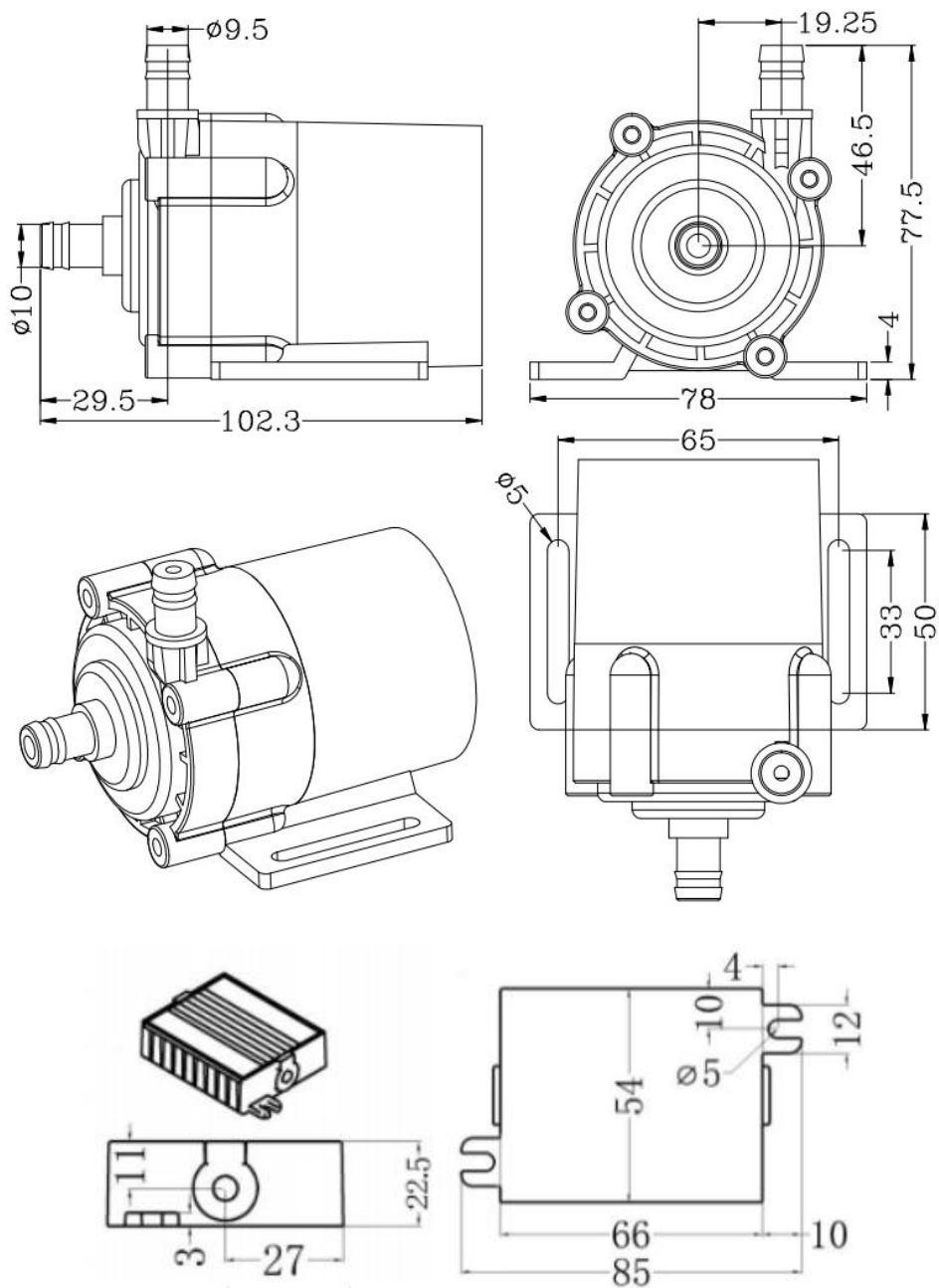
## 三. 基本参数(参数可以定制) Parameter (Parameter can be customized)

1	产品型号: Product model:	DC55K-12170PWM DC55K-12170VR DC55K-12170VS DC55K-12170S	DC55K-24250PWM DC55K-24250VR DC55K-24250VS DC55K-24250S	PWM:PWM 调速 PWM speed regulation (50-800HZ/ 5V) VR:0~5V/电位器调速 potentiometer speed regulation VS:0~5V 模拟电压信号调速 Voltage signal speed regulation S:固定转速 Fixed speed
2	额定电压: Rated Voltage:	12V DC	24V DC	
3	工作电压范围: Working voltage range:	10-18V	12-28V	此范围内, 水泵能够正常工作 The pump can out put constant power when the voltage is higher than rated voltage.
4	额定电流: Rated Current:	3.5A (4.5A) ±10%	2.7A (3.3A) ±10%	封闭出水口电流 (敞口抽水电流) Closed outlet current(open outlet current)
5	输入功率: Input Power:	42W (54W) ±10%	65W (80W) ±10%	封闭出水口功率 (敞口抽水功率) Closed outlet power(open outlet power)
6	最大流量: Max. Flow rate:	470L/H ±10%	550L/H ±10%	敞口流量 Open outlet flow
7	最大扬程: Max. Head:	17M ±7%	25M ±7%	静态扬程 Static lift
8	推荐输入电源: Min. power supply:	12V-5A	24V-4A	
9	恒功率输出: Constant power output:	例如 12V(24V)10W 的水泵, 用 12-18V(24-30V)都是 10W,并且可以长期运转。 For example, a 12V (24V) 10w pump with 12-18V (24-30V) is 10w and suitable for a long time working under this condition		

备注:参数可以向下兼容, 例如最大 80W 可以定制 80W 以内任何参数。



### 八. 尺寸与外观图 Dimension and appearance



## 九. 故障与维修 Failure and maintenance

	故障现象 Failure phenomenon	原因 Cause	解决方案 Solution
1	电流大, 流量小 High current, low flow	转子内有杂质 Impurities in the rotor	拆开水泵清洗转子 Disassemble the pump to clean the rotor
2	电流变小, 抽水断续 pumping intermittent Current becomes low,	缺水 What shortage	加水 Add water
3	不转, 电流时大时小 No rotation, current is high and low	转子因异物卡死 Rotor jammed by a foreign object	排除转子卡死异物 Remove foreign matter from rotor
	不转, 出现短路电流 No rotation, short-circuit current	控制板损坏 Damaged control board	更换水泵 Change a new pump
	不转无电流 No current without rotation	电源线没有接好 The power cord is not connected.	检查连接件或插头是否正常 Check if connected
4	噪音大 Noisy	泵内有杂质 Impurities in the pump	排除杂质 Remove impurities
		泵内有气体无法排出 air in the pump cannot be discharged	将出水口朝上放置, 使液体中没有空气 Place the outlet facing up so that there is no air in the liquid
		泵内无液体, 水泵干磨 No liquid in the pump, pump dry running	使泵内有液体即可 have enough liquid in the pump

## 十. 注意事项 Notice

1. 严禁使用带有大于 0.35mm 的杂质和陶磁性颗粒的液体。 It is forbidden to use liquids with impurities greater than 0.35mm and ceramic or magnetic particles.
2. 长时间不使用时, 通电前最好先使用泵内有一定的液体。 If it is not used for long time, make sure water goes inside the pump before power on.
3. 通电前请先确认连接无误, 否则可能产生故障。 If not used for long time, please make sure cord connection correctly.
4. 严禁泵内无液体时长时间使用。 Do not let pump dry run .
5. 低温环境使用时, 请确保使用液体不会出现结冰或者变得很粘稠。 If use in low temperature environment, please make sure the water won't be frozen or thick..
6. 连接器的针脚处有水渍, 请将水渍处理干净后再使用。 Please check if there is water on connection plug, and clean it before us