

# 規格承認書

## Specification For Approval

客戶 Customer: \_\_\_\_\_  
客戶代號 Customer Code: \_\_\_\_\_ M010 \_\_\_\_\_  
客戶品號 Customer Part No.: \_\_\_\_\_  
  
產品名稱 Product Name: \_\_\_\_\_ DC Fan \_\_\_\_\_  
型號 Model No.: \_\_\_\_\_ RDL3010S \_\_\_\_\_  
產品品號 Part No.: \_\_\_\_\_  
  
編號 Spec. No.: \_\_\_\_\_ XRL42103014 \_\_\_\_\_  
制定日期 Issue Date: \_\_\_\_\_ 2021-03-11 \_\_\_\_\_  
版本 Revision.: \_\_\_\_\_ A00 \_\_\_\_\_

客戶確認簽名欄 Customer Confirmation Signature

此份規格的制定是依據您的當前需求，除非另有修訂，它將是貴公司所有生產訂單最終檔，敬請研究細節，在您確認後的同時返回給我們有清晰簽名的副本。

This specification is made according to your current inquiry , unless otherwise revised, It will be final document for all future production of orders from your respected company , Kindly study in details and return to us the duplicate clear signed as your confirmation same.

批准 Approved By	檢查 Checked By	準備 Prepared By
孙康迪	谢斌	罗亮



## 1. 适用范围 Scope



此份规格书定义了产品的电气及机械特性。

This specification defines the electrical and mechanical characteristics of the product.

## 2. 一般规格 General Specification

序号 No.	项目 Item	规格 Specification	单位 Unit
1	额定电压 Rated Voltage	12	VDC
2	工作电压 Operating Voltage	6.0~13.8	VDC
3	输入电流 Input Current	0.06(Max.0.07)	A
4	标签电流 Label Current	0.06	A
5	输入功率 Input Power	0.72(Max.0.86)	W
6	转速 Speed	7000 ± 15%	RPM
7	最大风量(零静压时)Max.Air Flow(At Zero Static Pressure)	3.2(Min.2.7)	CFM
8	最大风压（零风量时）Max. Air Pressure(At Zero Air Flow)	2.7(Min.1.9)	mmH <sub>2</sub> O
9	噪声 Acoustical Noise	23(Max.26)	dB(A)

## 3. 电气特性 Electrical characteristics

1	绝缘阻抗 Insulation resistance	框与导线正极端子之间加直流 500VDC，最小 10MΩ； Min 10M ohm between frame and positive terminal at 500VDC.
2	绝缘耐压 Dielectric strength	框与导线正极之间加交流 500VAC 1 分钟或 600VAC 1 秒钟，漏电流最大 5 mA； Max 5 mA between frame and positive terminal at 500VAC 1 min or 600VAC 1Sec.
3	预期寿命 Life Expectancy	在额定电压，室温 25℃，相对湿度 15%~65%RH 环境中工作时的平均寿命约 30000 小时； Average life is about 30000 hours while fan is operating at rated voltage in room temperature 25℃ and relative Humidity 15%~65%RH environment.
4	绝缘等级 Insulated Class	UL: Class A (105℃)
5	安规 Safety Approvals	EP  

## 4. 机械特性 Mechanical Characteristics

1	尺寸 Dimension	参见尺寸图 See Dimension Drawing
2	外框 frame	塑料、黑色 Thermoplastic ,Black ,UL94V-0
3	扇叶 Impeller	塑料、黑色 Thermoplastic ,Black ,UL94V-0
4	轴承 Bearing	含油轴承 Sleeve Bearing
5	重量 Weight	Approx.8.5g
6	防护等级 Ingress Protection Rating	NA

## 5. 环境适应 Environmental

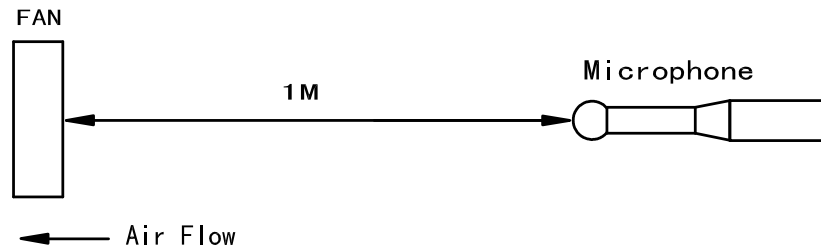
1	运转温度 Operating Temperature	-10 ~ +70 °C
2	储存温度 Storage Temperature	-40 ~ +75 °C
3	运转湿度 Operating Humidity	35% ~ 85%RH
4	储存湿度 Storage Humidity	35% ~ 85%RH
5	环保要求 RoHS Compliance	产品有害物质含量符合欧盟指令(EU) 2015/863 要求。 Hazardous substances contents in our products is in compliance with RoHS (EU) 2015/863 requirement.

6. 保护 Protection

1	极性保护 Polarity Protection	如果端子的正负极接反，产品能够承受 10 分钟不被损坏。 Be capable of withstanding 10 minutes will not cause damage if reverse connection for positive and negative leads.
2	马达锁住保护 Locked Rotor Protection	在额定电压范围和运转温度下，当转子被锁住后电路电流会被关闭或维持很小范围保护马达在 72 小时内不会损坏。 The current will shut down or remain a little range to protect motor from damage in 72 hours when locking rotor at rated voltage and operation temperature.

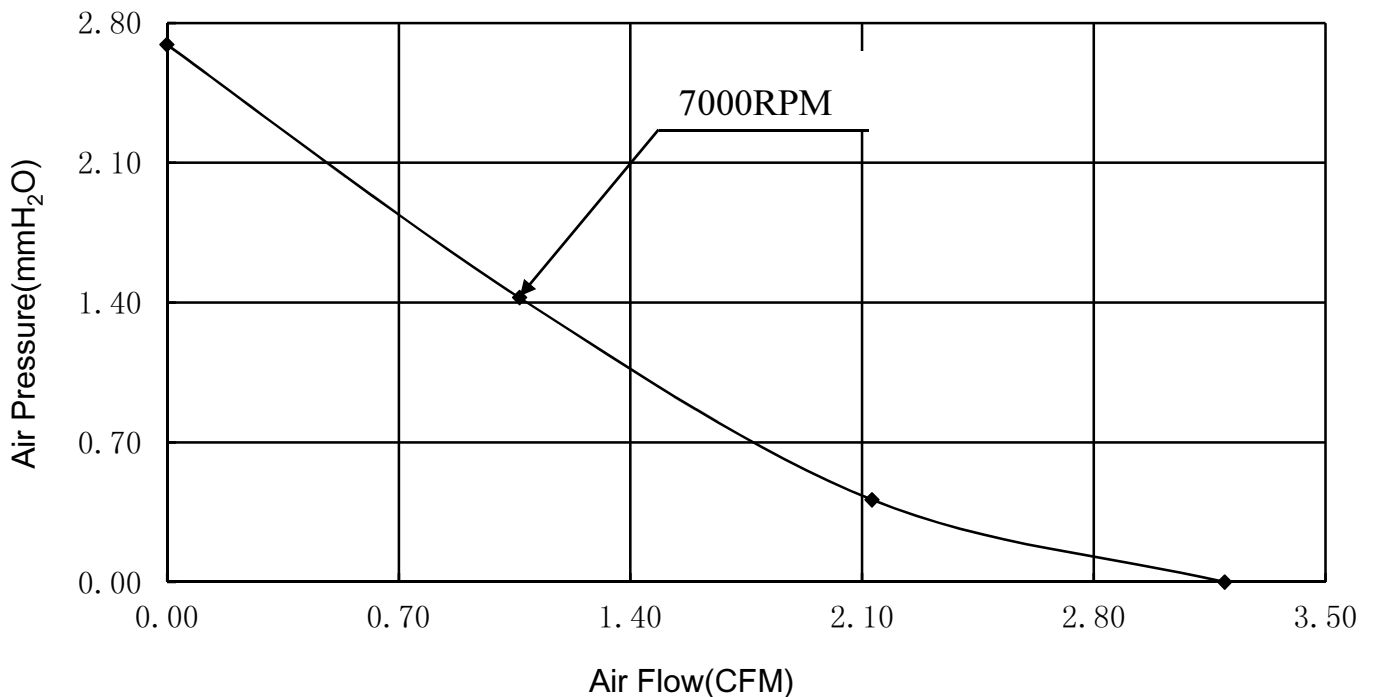
7. 噪音 Acoustical Noise

风扇悬吊在无响室无风阻运转，在额定电压下麦克风距风扇进风口 1 米的距离测试值。Fan is hanged in anechoic chamber, noise is measured at rated voltage in free air in anechoic chamber with microphone at a distance of one meter from the air intake .

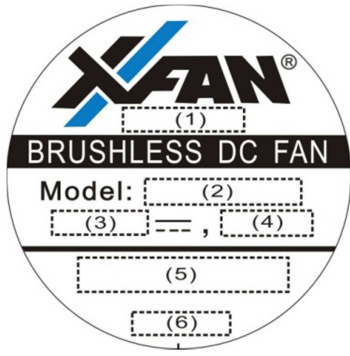


8. 特性曲线 Performance Curve

在运转电压、室温、65%湿度条件下测试。At operation voltage in room temperature and 65% humidity



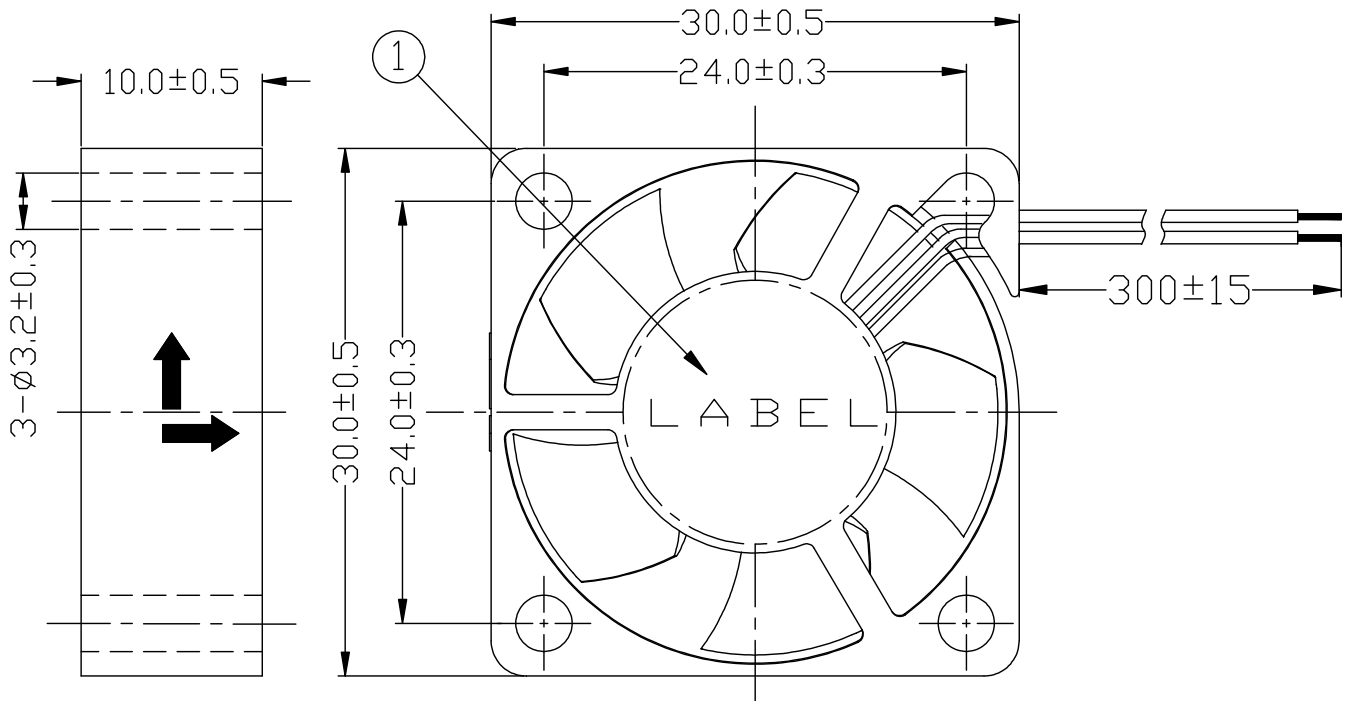
9. 标签 Label



(1)	制造日期 Date Code
(2)	型号 Model No.
(3)	电压 Voltage
(4)	电流 Current
(5)	安规 Safety Approvals
(6)	产地 Location

10. 尺寸图 Dimension Drawing

单位 Unit: mm



导线 Lead Wire: UL1061;28AWG; 红色正极 Red Positive(+); 黑色负极 Black Negative(-)

序号 No.	数量 Qty	名称 Part Name	描述 Description
①	1	标签 Label	

## 注解 Notes

1. 我们提供的产品应在规格书指定的条件内使用，如果您的应用超出规格极限我们对此不保证产品质量。We provide products should be used within the specification appointed condition,so we will not guarantee this product quality if your application exceeds the limitations outlined in this specification.
2. 除非事先约定，我们保留使用相等规格多种来源零件的权利，原材料和结构的变更不作预先通知，但确保变更完全符合此份规格书。Unless prior agreement, we reserves the right to use components with equivalent specifications from multiple sources, so material and construction are subject to change without advance notice. this changes should be within this specification here above.
3. 除非事先通知我们所需求参数，否则出货产品与此份规格书一致，未在此份规格书中指定的参数与贵公司最终承认的样品相同。Product will be shipped in accordance with this specification unless wehas been previously notified of parameters requiring exception , ifparameters which are not specified in this specification will be identical to the final sample which has been approved by your company.
4. 除非特别指出，测量记录是在室温、供给产品接线端的额定电压误差不超过 $\pm 0.1VDC$ 条件下测试。Unless otherwise specified, marking measurement and tests areon room temperature, power supply provide rated voltage tolerance must not over  $\pm 0.1VDC$ .
5. 除非特殊设计,在使用期间由于灰尘，水，水滴，露，腐蚀气体、应用缺陷等意外事件可能引起的产品性能下降、安全问题甚至产品失效。Except some special designs, During use against caused by dust, water, droplets, dew, corrosive fluids, application bugs, etc. accidents causeproduct performance degradation, safety problem even product failures.
6. 在出厂前叶轮和马达被连接起来维持好了平衡，当您使用时不要从马达上分离扇叶，这可能产生振动和减少运转寿命。The impeller and the motor are combined to maintain good balance before this product leave factory, Do not separate the impeller from the motor when you use, This may cause vibration and decrease the operation life.
7. 当风扇在转动时，不要把手指或您的身体的其它部分伸进产品造成人体受伤，更不能放物体到风扇里面造成风扇损坏。Do not put your finger or any other part of your body in to this product when the fan in running , You may get injured, never put an object into the fan, it may damage the fan.
8. 当产品工作时始终遵守规格中指出的运转条件和环境需求（诸如运转电压范围，运转温度范围，电源节点）。Always observe the operating conditions and the environmental requirements indicated in this catalog (such as operating voltage range, operation temperature range, and power connection points) when operation the product.
9. 请小心搬运和安装此产品，碰撞或跌落或用手指等其它物体挤压产品都有可能损坏支架和轴承导致产品在设备工作时产生奇怪的噪音和振动。Please handle and install this product carefully, Hitting or dropping or extruding with fingers or other objects this product may damage holders or bearings. Resulting in strange noise and vibration during equipment operation.
10. 确定在连接和断开连接器之前关掉电源，避免产生电子零件短路。Make sure to turn off the power before connection or disconnecting the connectors. This may cause short of electronic parts.
11. 不适当的安装可能产生刺耳的共振，振动和噪音，请可靠安装。Improper mounting may cause harsh resonance, vibration, and noise. Please mount securely.
12. 确保产品依照指定的储存温湿度存储，不要储存在高温，高湿，有腐蚀气体的环境，如果产品储存超过 6 个月，我们推荐在使用前进行功能性测试。Always ensure that products are stored according to the storage temperatures and humidity specified. Do not store in such as high temperature and high humidity and where there is corrosive gas environment, If the products are stored for more than 6 months, we recommend functional testing before using.