



东莞市宗旨电子科技有限公司

DONGGUAN ZONGZHI ELECTRONIC TECHNOLOGY CO.,LTD

產品規格書

PRODUCT SPECIFICATION

客 戶

Customer

客 戶 型 號

Customer P/N

產 品 名 稱

Part Name

食品级高压水泵

產 品 型 號

Model No.

AM3048GYW DC12V Mini Water Pump

CUSTOMER APPROVED 客戶確認	CHECKED 核 对	INSPECTION 審 查	APPROVAL 批 准	DATE 日 期	Version 版 本
AIM TECH APPROVED 宗旨確認	DRAWN 編 制	CHECKED 審 核	APPROVAL 批 准	DATE 日 期	Version 版 本
	姜智慰	郑志强	段真	2025.05.27	1.0

PLEASE CONFIRM OUR SPECIFICATION. 敬请确认规格书之内容。

PLEASE CONFIRM AND RETURN 1 COPY. 请确认后惠返（1）份。

廠址：廣東省东莞市大朗镇松湖云谷大朗创新产业园 D 栋 2-3 楼

Address: Floor 2/3, Bldg. No.4, No. 388, Yang-Shin Road, Yangchong Village, Dalang Town, Dongguan, China

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1.適用範圍 Application:

本規格書適用於微型 AM3048GYW DC12V Water Pump 之用。

2.測試條件 Test condition:

- 2-1 測試環境溫度濕度：周圍溫度 20℃，相對濕度 65%RH 為標準。如無爭議發生可以在下述環境測試：周圍溫度 5—45℃，相對濕度 30—80%RH

The standard of environment test is the ambient temperature of 20℃ and relative humidity of 65%RH. If no disputes occur, the test can be conducted under the blow circumstance:the ambient temperature of 5-45℃ and relative humidity of 30~80% RH.

- 2-2 測試姿勢 position:

水平 Horizontal

- 2-3 負荷 Load

常溫水 Water&熱水 (0-100℃) Hot water

3.性能 Function(FIG3):

項目 Item	性能 Function	備註 Remarks
3-1 額定電壓 Rated voltage	12V	
3-2 使用電壓 Operating voltage	11V-13V	
3-3 抽水電流 Load current	<550mA	額定電壓下的抽水電流
3-4 常溫水流量 Water Flow	>250ml/Min	額定電壓下，1 分鐘所抽的水流量
3-5 水壓力 Water pressure	>18Bar	
3-6 止流要求 No over-flow	<30ml	在定額 80-120ml 的容器，液面到進水嘴 60mm 的高度，水泵靜態條件下 12 小時出水口的漏水量小於 30ml.
3-7 自吸高度 Head	>30cm	
3-8 揚程 Priming	>50cm	
3-9 噪音 Noise	<70dB(FIG 1)	將泵體之下墊 5cm 厚的海綿，放置在距離噪音儀 30cm 位置，DC12V 電壓下抽水所測得的 dB 值

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審核：鄭志強


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<div>3-10 使用溫度範圍 Operation temperature range: 在溫度 0℃到 50℃及濕度 30%RH 到 80%RH 之間泵運作良好。 The temperature have to be between 5 ℃ and 50 ℃ and humidity must is between 30%and 80%RH to function the pump well.</div> <div>3-11 保存溫度範圍 Preservation temperature range: 在溫度-20℃到 60℃及濕度 30%RH 到 85%RH 之間泵保持在良好的狀態。 The temperature has to be between negative 20℃and positive 60℃ and humidity has to be between 30%and 85% RH to keep the pump in a good condition.</div> <div>4.可靠性試驗 Reliability test: 在經過 4-1 到 4-4 的測試後，噪音需低於 70dB。 Shall satisfy the basic performance of article 5 after 4-1 to 4-4 tests. Noise less than 70 dB.</div> <div>4-1 低溫特性 Low-temperature characteristic: 放置在-20℃經 72 小時後，再取出置於常溫（20℃±5℃）中 2 小時按 3-3 3-4 3-5 3-6 測試無異常。 Putting the pump in the temperature at negative 20℃ for 72 hours;then taking it out and putting it in a room temperature at 20℃±5℃ for two hours.Under this circumstance, running through test 3-3 3-4 3-5 3-6 and finding out that the pump still performs well.</div> <div>4-2 高溫特性 High-temperature characteristic: 在 60℃經 72 小時放置後，再取出置於常溫（20℃±5℃）中 2 小時按 3-3 3-4 3-5 3-6 測試無異常。 Putting the pump in the temperature at 60℃ for 72 hours;then taking it out and putting it in a room temperature at 20℃±5℃ for two hours。Under this circumstance, running through test 3-3 3-4 3-5 3-6 and finding out that the pump still performs well.</div> <div>4-3 高溫高濕 High-temperature & High humidity: 在溫度 60℃，濕度 80～85%環境中 72 小時取出置於常溫（20℃±5℃）中 2 小時按 3-3 3-4 3-5 3-6 測試無異常。 Putting the pump in the temperature at 60℃ and the humidity between 80~85% for 72 hours; then taking it out and putting it in a room temperature at 20℃±5℃ for two hours. Under this circumstance, running through test 3-3 3-4 3-5 3-6 and finding out that the pump still performs well.</div>				
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<div>4-4 壽命試驗 Life test:</div> <div>額定电压供电，工作 1 分钟停 1 分钟為一循环 測試 20000 次以後按</div> <div>3-3 3-4 3-5 3-6 測試無異常。</div> <div>At rated voltage, working for 1min stopping for 1min is as one cycle。Doing it for 20000 times, then examine the pump by test 3-3 3-4 3-5 3-6and figure out that the pump is still in a good function.</div> <div>4-5 低溫環境測試 Low— temperature environment test:</div> <div>在 5℃經 5 小時後 在此溫度下測試無異狀。</div> <div>Under a temperature of 5 ° C for 5 hours, then examining the pump by test 3-3,3-4,3-5, and finding out it still perform well.</div> <div>4-6 高溫環境測試 High— temperature environment test:</div> <div>在 50℃經 5 小時後 在此溫度下測試無異狀。</div> <div>Under a temperature of 50 ° C for 5 hours, then examining the pump by test 3-3,3-4,3-5 and finding out it still perform well.</div> <div>5.其他 Others</div> <div>5-1 跌落試驗 Fall test:</div> <div>使用標準的包裝方式，在水泥地面上將其從 50CM 的高度分別從正面、側面、邊角自由落下其性能及結構無異常。</div> <div>Basic performance and the structure shall not be defected after following test: With a standard packaging conditions, the dropping it at the front, side, and edges part from 50cm height to the concrete floor.</div> <div>5-2 異常試驗 Unusual test:</div> <div>用 DC 12V 連續通電 8 小時無燃燒、冒煙現象。</div> <div>There is no burning and smoking occurrence while the power is on with DC 12V for 8 hours continuously.</div>				
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5-3 馬達端子 Motor Terminal:

以 0.5 公斤砝碼與端子負載無異常。端子須在 380℃烙鐵溫度下焊接，要求在 2S 內操作完成

No abnormality occurs when a 0.5Kg static is hanging in the parallel direction of the Terminals .The terminals must be 380 °C temperature soldering iron, the requirements to complete the operation in 2 seconds.

5-4 外觀 Appearance:

產品不能有破損，臟汙。

The appearances of the pump shall not contain cracks and impurities.

5-5 標籤 Marking label

AIM TECHNOLOGY

AM3048GYW

DC 12V 2025XXXX(实际生产日期)

6.产品使用注意事项 Product use considerations:

6-1.水泵电机不可粘水及腐蚀性液体

Water pump motor shall not stick to water and corrosive liquid

6-2.使用流体为纯净的水,建议液体过滤

Using the fluid as pure water, liquid filtration is recommended

6-3.禁止使用强酸强碱性的液体

Using the fluid as pure water, liquid filtration is recommended

6-4.当水泵在运转中,请勿企图将电机锁死特别长的时间.如此,会因连续停止不转,产

生高热而烧坏内部电机及电子零件. 使用流体请使用纯净的水，避免杂质进入水泵以免给产品造成性能上的不稳定甚至损坏产品。

When the water pump is in operation, do not try to lock the motor for a very long time. In this way, due to the continuous stop, production Raw high heat and burn out the internal motor and electronic parts. Use the fluid. Please use pure water to avoid impurities from entering the water The pump may avoid causing performance instability or even damage to the product.

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FIG 1

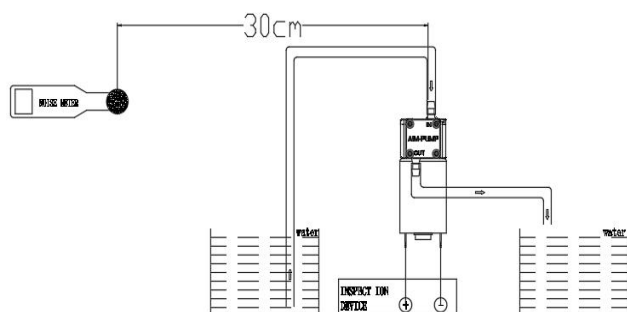
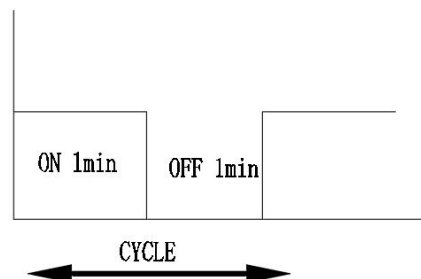


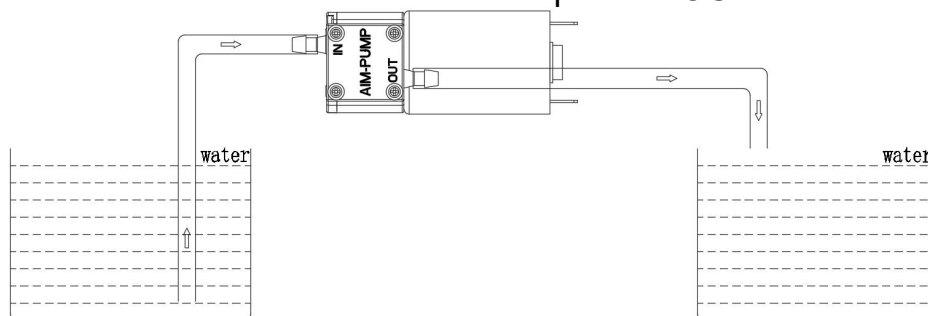
FIG 2



1.流量:在额定电压下,正常抽水流量要求 $>280\text{mL/min}$ 。

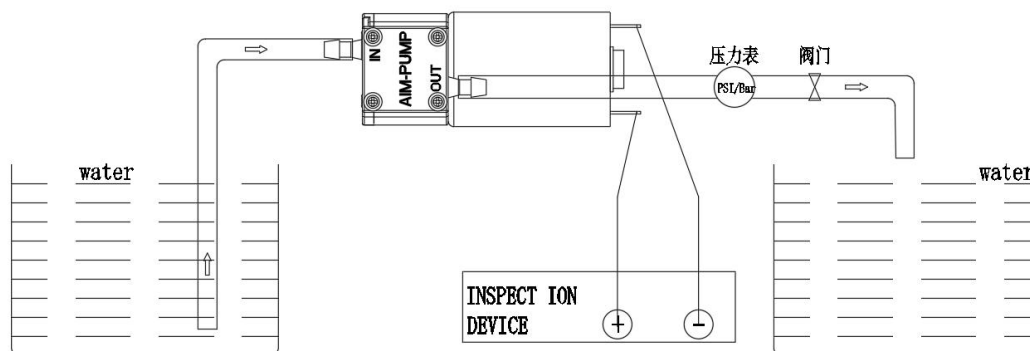
测试步骤及方法: 待测试的冷态水泵如图一安装就位,输入额定电压 DC12V,待水泵工作完全将 OUTLET 端内空气排出后,在 OUTLET 以量杯接第一分钟的出水量 。

Test steps and methods: the cold water pump to be tested is installed and installed as shown in the rated voltage DC12V. After the pump works to discharge the air in the OUTLET end, measure the water volume of the cup at the OUTLET end .



2.压力:在冷态下水泵按照下图连接,并输入额定电压下,压力表左侧水管中无空气时关闭出水阀时,压力表上读数大于 18Bar。

Pressure: When the cold water pump is connected according to the following figure and input at rated voltage. When the outlet valve is closed in the left water pipe of the pressure gauge, the reading on the pressure gauge is greater than 18Bar.



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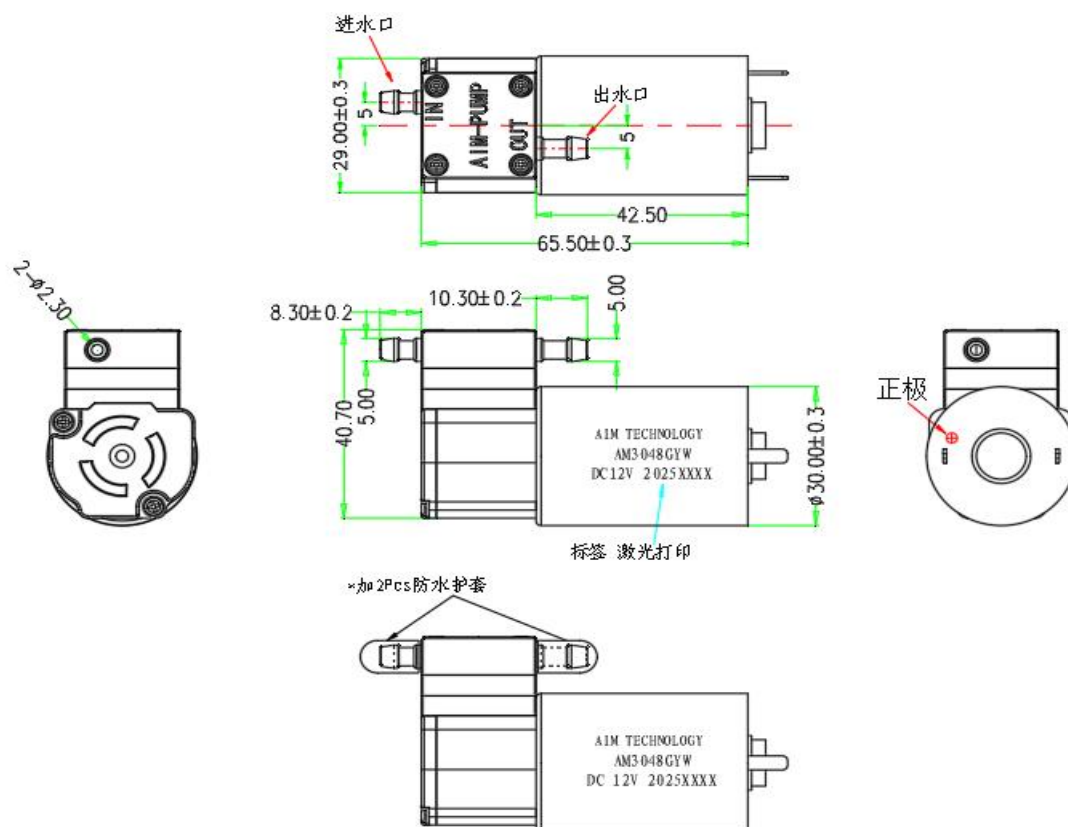
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7. 外形尺寸 Dimensions



8. 圖片 photo



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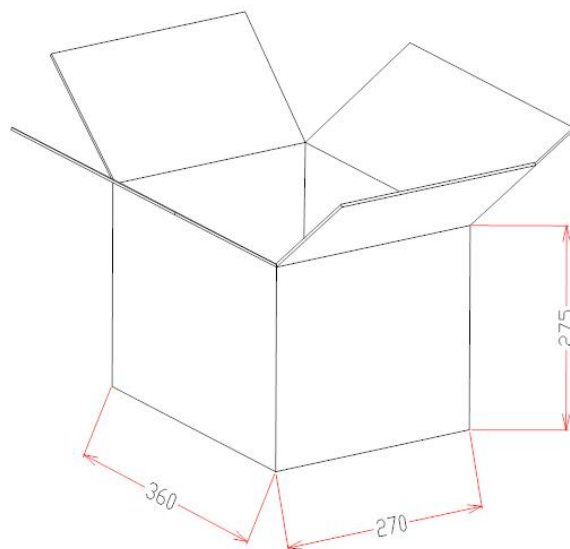
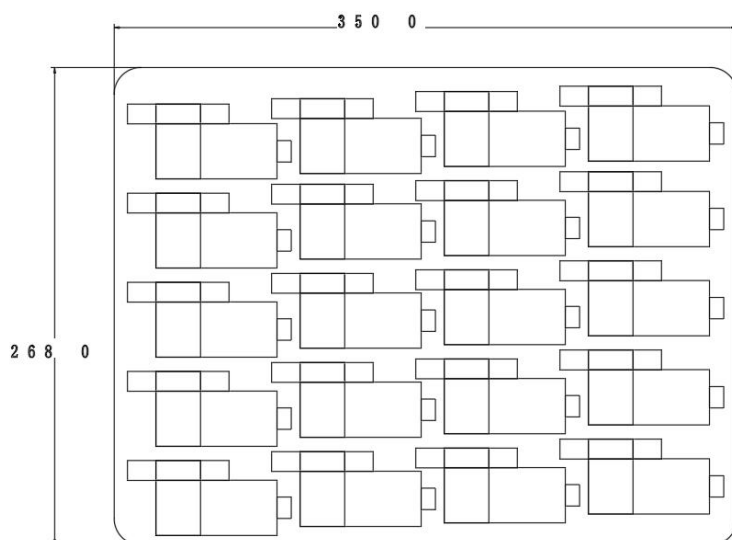
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9.包裝 Packing

每箱包裝數量 98PCS / carton



10.重量 Products weight

135g/pc

13.5 Kg/carton

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10. ROHS 承諾書:

ROHS letter of commitment:

宗旨公司鄭重保證，本公司向提供的全部產品或零部件均不含以下禁止物質（包括未滿限制值的情況）

限用物質一覽表：國內外法律禁止製造、禁止使用、限制含有之物質。

1) Cadmium and its Compounds(Cd) 鎘及其化合物

2) Lead and its Compounds(Pb) 鉛及其化合物

3) Mercury and its Compounds(Hg) 水銀及其化合物

4) Hexavalent Chromium Compounds(Cr6+) 六價鉻化合物

5) Polybrominated Biphenyls (PBBs) 多溴聯苯

6) Polybrominated Diphenyl ethers(PBDEs) 多溴二苯醚

7) Asbestos 石棉

8) Polychlorinated Biphenyls (PCBs) 多氯化聯苯

9) Tributyl Tin Oxide(TBTO) 三丁基氧化錫

10) Tributyl Tins & Triphenyl Tins 三苯基錫及三丁基錫類

11) Formaldehyde 甲醛

12) Polychloronaphthalenes(Cl>3) 多氯化萘

13) Short Chain Chlorinated Paraffins 短鏈氯化石蠟

14) Brominated Flame Retardants 含溴阻燃劑

15) Vinyl Chloride Polymer PVC 膠皮

16) Azo Colorants 偶氮類染料及顏料

17) Ozone depleting Substances 破壞臭氧層物質

18) adioactive Substances 放射性物質

宗旨公司禁止物質限制值的標準:

1、Cadmium and its compounds(Cd) 鎘及其化合物 <100 ppm

2、Lead and its Compounds(Pb) 鉛及其化合物 <1000 ppm

3、Mercury and its Compounds(Hg) 水銀及其化合物 <1000 ppm

4、Hexavalent chromium compounds(Cr6+) 六價鉻化合物 <1000 ppm

5、Polybrominated Biphenyls(PBBs) 多溴聯苯 <1000 ppm

6、Polybrominated Diphenyl ethers(PBDEs) 多溴二苯醚 <1000 ppm

11.验收标准: 根据 MIL-STD-105E 单次抽样，正常检验水平 II

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