

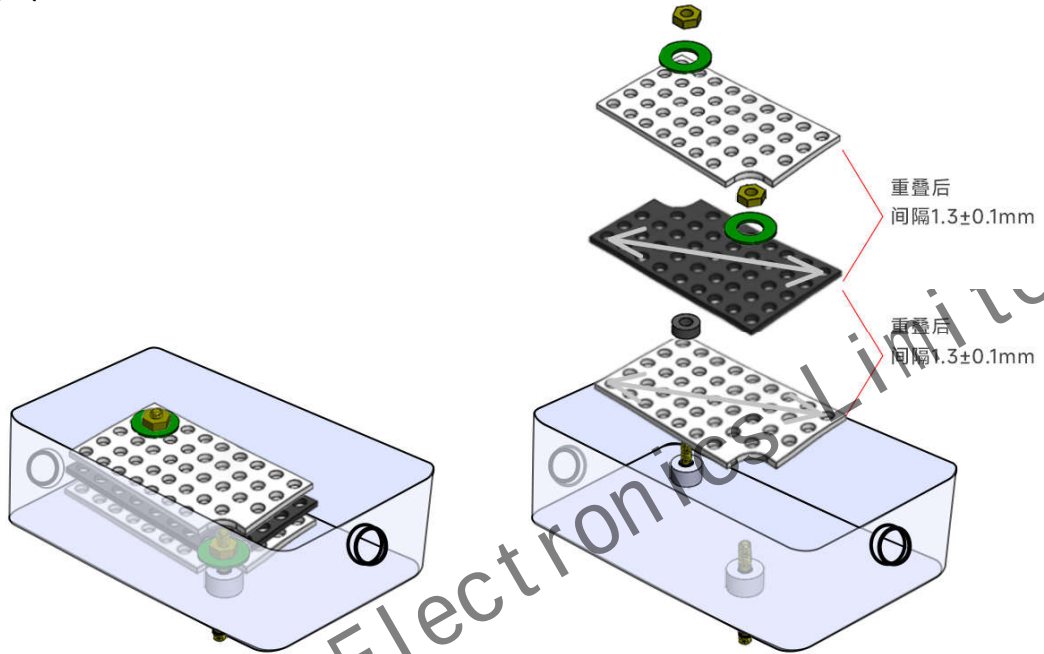
SAMPLE SPECIFICATION / APPROVAL SHEET

样品规格 / 批准表

PRODUCT NAME:EOG OZONE Module

产品名称： EOG过流式超氧离子模组 - 850ml/min

A. General Specification 一般规范



B. Main Materials / Parts Specification 主要材料 / 部件规格

Materials/ Parts 材料 / 部件		Specification 规格	
1	Plastic casing 塑胶外壳	Cover 面盖	ABS
		Main body 主体	ABS
2	Electrode plates 电极板	Anode 阳极	TA (TA1) 钛 (TA1)
		Cathode 阴极	Sus 316/304 不锈钢 316/304
3	Screw and washer Assembled 螺钉和垫圈集合	Hex socket head cap screws/nuts 六角形插座头盖螺钉/螺母	TA 钛 (TA1)
		Screws/nuts/Washer 螺钉 / 螺母/垫片	Sus316/304 不锈钢316/304
4	insulating trip 绝缘片	Anode and cathode insulated trip 阳极与阴极绝缘片	ABS ABS
5	Cordiality pillar 导电柱	Conduction of cathode 阴极导电	Sus316/304 不锈钢316/304

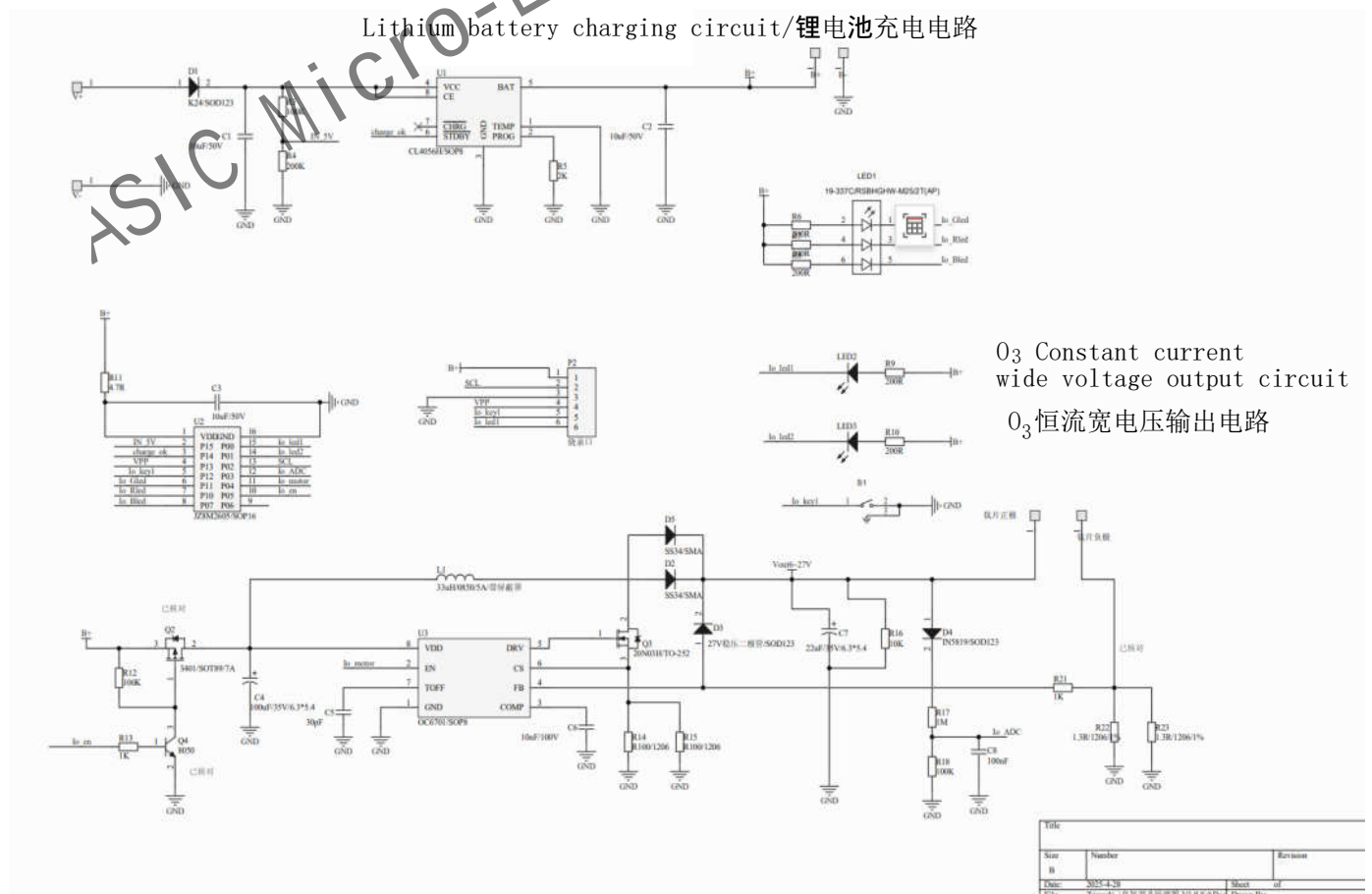
C. Electrical Specification

电气规格

Item 项目		Specification/ Condition 规格 / 条件	
1	Polarity Protection 极性保护	Do not exchanged polarity 不要交换极性	
		anode coating won't be failed within 5 seconds when polarity exchanged 极性交换后阳极涂层在5秒内不会失效	
2	Substrate Resistance 基材电阻	⊙anode- < 5 Ω 阳极 - < 5 Ω	
		⊙cathode - < 2 Ω 阴极 - < 2 Ω	
3	Withstanding Voltage 防爆电压	100VDC Max. @ 5~35℃ water temp 100VDC最大值@5~35℃水温	
4	Constant Current Design 定电流设计	0.03A/cm ²	Current: 0.135A 电流 : 0.135A
5	Wide voltage design 宽电压设计	Design voltage: 6~27V 设计电压: 6~27V	

D. Circuit diagram

电路图:



E. Flow meter

流量表

Testing equipment: ozone generator water tank, adjustable power supply, ozone tester, measuring cup

测试设备: 臭氧发生器水箱、可调电源、臭氧测试仪、量杯

Test conditions: Flow rate 850ml/min Temperature: 27 °C Humidity: 62%

测试条件: 流量 850ml/min 温度: 27°C 湿度: 62%

The test data is shown in the following table:

测试数据如下表:

序号 No	水质 TDS (ppm)	电流 ID (A)	电压 Voltage (V)	臭氧浓度 O3 (ppm)	备 注 Notes
1	50~500	0.135	6~27	0.05~0.3	Refer to Note 7 参考备注第 7 点
7	>500	0.135	≤6	Program shutdown with no loss 程序关闭无输	Cut off power supply below 6V, no current output 小于 6V 电源切 断, 无电流输出

F. Notes 备注:

1. Module positive electrode plate: The positive electrode plate and the current passing through it must be made of titanium (TA1) material;

模组正极片: 正极片及所经电流材质均需用钛 (TA1) 材质;

2. Module negative electrode: The negative electrode and the current it passes through must be made of stainless steel 304 or 316 material;

模组负极片: 负极片及所经电流均需用不锈钢 304 或 316 材质;

3. The distance between the positive and negative poles of the module is $1.3 \pm 0.1\text{mm}$, and the polarity cannot be reversed or short circuited;

模组正负极片间距 $1.3 \pm 0.1\text{mm}$, 极性不可反接、不可短路;

4. It is recommended that the wall thickness of the plastic cavity of the module be $\geq 3.5\text{mm}$, and it can withstand a maximum of 0.3MPa;

模组塑胶腔体壁厚建议 $\geq 3.5\text{mm}$ 最大可承受为 0.3MPa;

5. The four corners of the plastic cavity should not be designed as right angles, but as arcs;

塑胶腔体的四角不可设计为直角, 应为圆弧;

6. If the positive and negative screw posts of the module cavity are embedded with injection technology, waterproof rings need to be added to the top and bottom during assembly;

模组腔体正负极螺丝柱如采用埋射工艺, 装配时上下需加防水圈;

7. The above plan is aimed at water quality with TDS of 50-500ppm and flow rate of $850 \pm 10\%$ ml/min. The concentration generated by the ozone module is between 0.05-0.3ppm (if the flow rate and water pressure affect the ozone concentration, the parameters can be adjusted in the constant flow source circuit);

以上方案针对水质在 TDS 为 50~500ppm、流量为 $850 \pm 10\%$ ml/min 臭氧模组产生的浓度为 0.05~0.3ppm 之间 (如流量、水压影响臭氧 浓度可在恒流源路调整参数即可);