

RF EXPOSURE EVALUATION REPORT

Application No.: GZCR2508001293LM

Applicant: SHENZHEN BETTERLIFE PHOTOELECTRIC TECHNOLOGY CO., LTD.

Address of Applicant: 2nd Floor, Building C, Shitoushan Industrial Zone, Zhoushi Road, Shiyang Town, Baoan District, Shenzhen, Guangdong, China

Manufacturer: SHENZHEN BETTERLIFE PHOTOELECTRIC TECHNOLOGY CO., LTD.

Address of Manufacturer: 2nd Floor, Building C, Shitoushan Industrial Zone, Zhoushi Road, Shiyang Town, Baoan District, Shenzhen, Guangdong, China

Factory: SHENZHEN BETTERLIFE PHOTOELECTRIC TECHNOLOGY CO., LTD.

Address of Factory: 2nd Floor, Building C, Shitoushan Industrial Zone, Zhoushi Road, Shiyang Town, Baoan District, Shenzhen, Guangdong, China

Product Name: Garden Light

Model No.: MODY01RG, MODY02RG, MODY03RG, MODY04RG, MODY05RG, MODY06RG, MODY07RG, MODY08RG, MODY09RG, ODX01RG, ODX02RG, ODX18RG, ODX28RG, MODX01RG, MODX02RG, MODX07RG, MODX30RG, OD01RG, OD02RG, MODY01RGB, MODY02RGB, MODY03RGB, MODY04RGB, MODY05RGB, MODY06RGB, MODY07RGB, MODY08RGB, MODY09RGB, OD01RGB, ODX24RGB, MOD01RGB, MOD32RB, MOD32GB, MOD01GB, OD01RG, MH-R30, MH-R50, MH-H90, MOD24RGB, MOD01RG, MOD32RG, MOD01RB, MOD32RGB ♣

♣ Please refer to section 2 of this report which indicates which item was actually tested and which were electrically identical.

Standard(s) : 47 CFR Part 2.1093

Date of Receipt: 2025-08-22

Date of Evaluation: 2025-09-08 to 2025-09-08

Date of Issue: 2025-11-06

Evaluation Result:	Pass*
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* In the configuration evaluated, the EUT complied with the standards specified above.



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Revision Record			
Version	Report No.	Date	Remark
01	GZCR250800129303	2025-11-06	Original

Authorized for issue by:			
		Michael Huang	
		Michael Huang/Project Engineer	
Approved By		Vico Cui	
		Vico Cui/Reviewer	



2 Evaluation Summary

Item	Standard	Method	Requirement	Result
RF Exposure	47 CFR Part 2.1093	47 CFR Part 2.1093	47 CFR Part 2.1093	Pass

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

♣ Declaration of EUT Family Grouping:

Model No.: MODY01RG, MODY02RG, MODY03RG, MODY04RG, MODY05RG, MODY06RG, MODY07RG, MODY08RG, MODY09RG, ODX01RG, ODX02RG, ODX18RG, ODX28RG, MODX01RG, MODX02RG, MODX07RG, MODX30RG, OD01RG, OD02RG

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference on model name.

Model No.: MODY01RGB, MODY02RGB, MODY03RGB, MODY04RGB, MODY05RGB, MODY06RGB, MODY07RGB, MODY08RGB, MODY09RGB, OD01RGB, ODX24RGB, MOD01RGB, MOD32RB, MOD32GB, MOD01GB, OD01RG, MH-R30, MH-R50, MH-H90, MOD24RGB, MOD01RG, MOD32RG, MOD01RB, MOD32RGB

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference on model name.

Therefore only one model MODY01RG was tested in this report.



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4 General Information

4.1 Details of E.U.T.

Power supply: DC 5V (Supply power for the AC\DC adapter as below) for Garden Light (Receiver only)
POWER SUPPLY
Model: RKPO-UL0401000IP44-1A
Input: AC 120V 60Hz 0.2A
Output: DC 4V, 1000mA 4W
DC 3V = 1 X 3V"CR2025" button cell for remote control (Transmitter)
Rated Power: Less than 5W

Cable(s): 2 Pins, AC input
2 wires x about 3.0m unscreened DC output cable.
(The POWER SUPPLY output cable to EUT).

Operation Frequency 433.92 MHz
Channel Numbers: 1
Modulation Type: ASK
Antenna Type: PCB antenna

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Evaluating Location

All tests were performed at:
SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou,
Guangdong, China 510663
Tel: +86 20 82155555
No tests were sub-contracted.



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4.3 Facility

The facility is recognized, certified, or accredited by the following organizations:

- **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

- **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

- **FCC Recognized Accredited Test Firm(Registration No.: 486818)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

- **ISED (Registration No.: 4620B, CAB identifier: CN0052)**

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

- **VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)**

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

- **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

4.4 Deviation from Standards

None

4.5 Abnormalities from Standard Conditions

None



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5 Technical Requirements Specification

5.1 RF Exposure Evaluation

5.1.1 Limit & Test Method

KDB447498D01 General RF Exposure Guidance v06

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$$\frac{[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]}{\leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}}$$

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation¹⁷
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

5.1.2 Conclusion

1, Maximum transmit field strength

The field strength is based on the RF Test Report GZCR250800129302.

Test Mode	Test Channel [MHz]	Field Strength [dBuV/m]	Test distance [m]
ASK	433.92	54.99	10

2, RF Exposure Calculation

The max field strength is 54.99 dBuV/m@ 10 m = 0.000562 V/m@ 10 m

$P = (E \cdot d)^2 / 30 = 0.00105281 \text{ mW}$ according to formula G.1 of ANSI C63.10:2020

	Evaluation method	Exempt Limit(mW)	Verdict
☒	Blanket 1 mW Blanket Exemption	1mW	Yes
☐	MPE-based Exemption(ERP)	7mW(ERP)	--
☐	SAR-based Exemption(P_{th})	2.744mW	--

So, the SAR report is not required.

6 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for GZCR2508001293LM

- End of the Report -



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