



Shenzhen Huaxin Information Technology Service Co., Ltd

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中国认可
国际互认
检测

TESTING
CNAS L18255

TEST REPORT

Report No.	: HX260119R003
Applicant	: SuZhou Solargy New Energy Technology Co., LTD
Address	: No. 003, 1st Floor, Building A, Shangkun Industrial Park, 2001 Yingbin West Road, Bacheng Town, Kunshan City, China
Manufacturer.....	: SuZhou Solargy New Energy Technology Co., LTD
Address.....	: No. 003, 1st Floor, Building A, Shangkun Industrial Park, 2001 Yingbin West Road, Bacheng Town, Kunshan City, China
Product Name	: Solar electronic parasol
Trade Mark	: /
Model/Type reference.....	: ZL01
Listed Model(s).....	: ZL01-90
Standard	: EN IEC 62311: 2020
Date of receipt of test sample....	: Dec. 26, 2025
Date of testing.....	: Dec. 27, 2025 ~ Jan. 19, 2026
Date of issue.....	: Jan. 20, 2026
Result.....	: PASS
Compiled by: (Printed name + signature)	Sain Liao <i>Sain</i>
Approved by: (Printed name + signature)	Terry Su <i>Terry Su</i>
Testing Laboratory Name.....	: Shenzhen Huaxin Information Technology Service Co., Ltd
Address	: 101, R & D Building, No.3 guansheng 4th Road, Luhua Community, Guanhu Street, Longhua District, Shenzhen, Guangdong, China



This test report shall not be copied in any form except with the written approval of our laboratory. The customer shall not claim that the product has been endorsed by Shenzhen Huaxin Information Technology Service Co., Ltd. based on this report, The test results in the report are only applicable to the samples tested. Without the signatures of the compiled engineer and the approver, the test report will be invalid. Any objection shall be submitted to Shenzhen Huaxin Information Technology Service Co., Ltd. within 15 days from the date of receiving the report. After this period, it will not be considered. The test report only corresponds to the test sample.



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1. TEST SUMMARY

1.1. Test Standards

The tests were performed according to following standards:

[EN IEC 62311: 2020](#) - Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz – 300 GHz) Council Recommendation 1999/519/EC of 12 July 1999 on the limitation of exposure of the general public to electromagnetic fields (0Hz to 300GHz) (Official Journal L 197 of 30 July 1999).

1.2. Report version

Revised No.	Date of issue	Description
01	Jan. 20, 2026	Original



1.3. Test Facility

Address of the report laboratory

Shenzhen Huaxin Information Technology Service Co., Ltd

Add: 101, R & D Building, No.3 guansheng 4th Road, Luhuhu Community, Guanhu Street, Longhua District, Shenzhen, Guangdong, China

Laboratory accreditation

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

A2LA-Lab Cert. No.: 6855.01

Shenzhen Huaxin Information Technology Service Co., Ltd EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

Industry Canada (Company Number: 31786, CAB Identifier: CN0147)

Shenzhen Huaxin Information Technology Service Co., Ltd EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration NO.: 31786.

FCC (Registration No.: 932271, Designation Number CN1344)

Shenzhen Huaxin Information Technology Service Co., Ltd EMC Laboratory has been registered and fully described in a report filed with the (FCC)Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration NO.: 932271.



2. GENERAL INFORMATION

2.1. Client Information

Applicant:	SuZhou Solargy New Energy Technology Co., LTD
Address:	No. 003, 1st Floor, Building A, Shangkun Industrial Park, 2001 Yingbin West Road, Bacheng Town, Kunshan City, China
Manufacturer:	SuZhou Solargy New Energy Technology Co., LTD
Address:	No. 003, 1st Floor, Building A, Shangkun Industrial Park, 2001 Yingbin West Road, Bacheng Town, Kunshan City, China

2.2. General Description of EUT

Product Name:	Solar electronic parasol
Trade Mark:	/
Model/Type reference:	ZL01
Listed Model(s):	ZL01-90
Model Different:	All these models are identical in the same PCB, layout and electrical circuit, The difference is Appearance color and aluminum thickness.
Power supply:	24Vdc/2.5A from AC/DC Adapter 14.4Vdc from 5000mAh Li-ion Battery
Hardware version:	ZL-LMS-H1.0
Software version:	ZL-LMS-V1.0
Technical index for Bluetooth	
Modulation:	GFSK, $\pi/4$ -DQPSK, 8-DPSK
Operation frequency:	2402MHz~2480MHz
Antenna type:	PCB Antenna
Antenna gain:	1dBi



3. TEST ITEM AND RESULTS

3.1. RF Exposure

Limit

Reference levels for electric, magnetic and electromagnetic fields
(0 Hz to 300 GHz, unperturbed rms values)

Frequency range	E-field strength (V/m)	H-field strength (A/m)	B-field (μT)	Equivalent plane wave power density S_{eq} (W/m ²)
0-1 Hz	—	$3,2 \times 10^4$	4×10^4	—
1-8 Hz	10 000	$3,2 \times 10^4/f^2$	$4 \times 10^4/f^2$	—
8-25 Hz	10 000	$4\,000/f$	$5\,000/f$	—
0,025-0,8 kHz	$250/f$	$4/f$	$5/f$	—
0,8-3 kHz	$250/f$	5	6,25	—
3-150 kHz	87	5	6,25	—
0,15-1 MHz	87	$0,73/f$	$0,92/f$	—
1-10 MHz	$87/f^{1/2}$	$0,73/f$	$0,92/f$	—
10-400 MHz	28	0,073	0,092	2
400-2 000 MHz	$1,375\ f^{1/2}$	$0,0037\ f^{1/2}$	$0,0046\ f^{1/2}$	$f/200$
2-300 GHz	61	0,16	0,20	10

Notes:

- As indicated in the frequency range column.
- For frequencies between 100kHz and 10GHz, S_{eq} , E^2 , H^2 and B^2 are to be averaged over any six-minute period.
- For frequencies exceeding 10GHz, S_{eq} , E^2 , H^2 and B^2 are to be averaged over any $68/f^{1.05}$ -minute period (.in GHz).
- No E-field value is provided for frequencies <1Hz, which are effectively static electric fields. For most people the annoying perception of surface electric charges will not occur at field strengths less than 20kV/m. Spark discharges causing stress or annoyance should be avoided.

MPE Calculation Method

$$E = \eta_0 H = \frac{\sqrt{30PG(\theta, \phi)}}{r}$$

Where:

E: E-field strength (V/m);

P: power input to antenna (Watt);

G: is the antenna gain relative to an isotropic antenna;

θ, ϕ : are elevation and azimuth angles to point of investigation;

r: is the distance from observation point to the antenna;

η_0 : is the characteristic impedance of free space.

**TEST RESULTS**

Band	Frequency (MHz)	Antenna Gain (dBi)	Maximum EIRP (dBm)	E-field strength at 20cm (V/m)	Limit (V/m)
BT/ EDR	Hopping	1.0	1.13	1.107	61.00

Note:

R is the distance from observation point to the antenna which is declared by the applicant.

*****THE END*****