RF EXPOSURE REPORT

FCC ID: 2BLRC-YL-WXC-02

Test Report No……..:	RF260514006-01-002
Product(s) Name……...:	Power Distribution Unit
Model(s)……..:	YL-WXC-02
Trade Mark……....:	N/A
Applicant……..…:	YA LI ELECTRIC CO LTD
Address……..…...:	Room 801, Building 9, No.6, Yuyuan 4th Road, Huangjiang Town, Dongguan City, Guangdong Province, China
Receipt Date……..:	2026.06.02
Test Date……....:	2026.06.02 ~ 2026.06.05
Issued Date……..……:	2026.06.05
Standards……:	FCC CFR Title 47 Part 1 §1.1310 FCC CFR Title 47 Part 2 §2.1091 KDB 680106 D01 Wireless Power Transfer v04
Testing Laboratory……:	Shenzhen Haiyun Standard Technical Co., Ltd.

Prepared By:	Checked By:	Approved By:	
Jason Huang	Black Ding	Tim Zhang	
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History of this test report

Original Report Issue Date: 2026.06.05

● No additional attachment

○ Additional attachments were issued following record

Attachment No.	Issue Date	Description

1. General Information

1.1 General Description of EUT

Sample No.	POC260514006-S001
Product name	Power Distribution Unit
Model name	YL-WXC-02
Test model	YL-WXC-02
Model difference	/
Trade mark	N/A
Power supply:	DC 12V from adapter
WPT Output Power:	15W Max
Modulation type	ASK
Operating frequency	110-205kHz
Antenna type	Coil Antenna
Antenna Gain	0 dBi
Product Type	Fixed device

1.2 Test Location

Company:	Shenzhen Haiyun Standard Technical Co., Ltd.
Address:	No. 110-113, 115, 116, Block B, Jinyuan Business Building, Bao'an District, Shenzhen, China
CNAS Registration Number:	CNAS L18252
CAB identifier	CN0145
A2LA Certificate Number	6823.01

1.3 Description of support units

The EUT has been tested with associated equipment below:

Description	Manufacturer	Model	S/N
Wireless charger load	EESON	SLY-YZB-A01	/
Power Supply	Shanghai Jingsai Electronic Technology Co., Ltd.	SG-120400050A	Input: 100-240V 50/60Hz 1.5A MAX Output: DC 12V 4.0A

1.4 Equipment used during test

The antennas provided to the EUT, please refer to the following table:

No.	Equipment	Manufacturer	Type No.	Serial No.	Calibration date	Calibration interval
1	Electric and Magnetic Field Probe-Analyzer	Narda	EHP-200AC	180ZX10204	2026.04.23	1 year

1.5 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
E-field	3kHz~30MHz	±7.5%	(1)
H-field	3kHz~30MHz	±7.5%	(1)
Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.			

2. RF exposure limit

Applicable Standard
According to subpart §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Limits for Maximum Permissible Exposure (MPE)

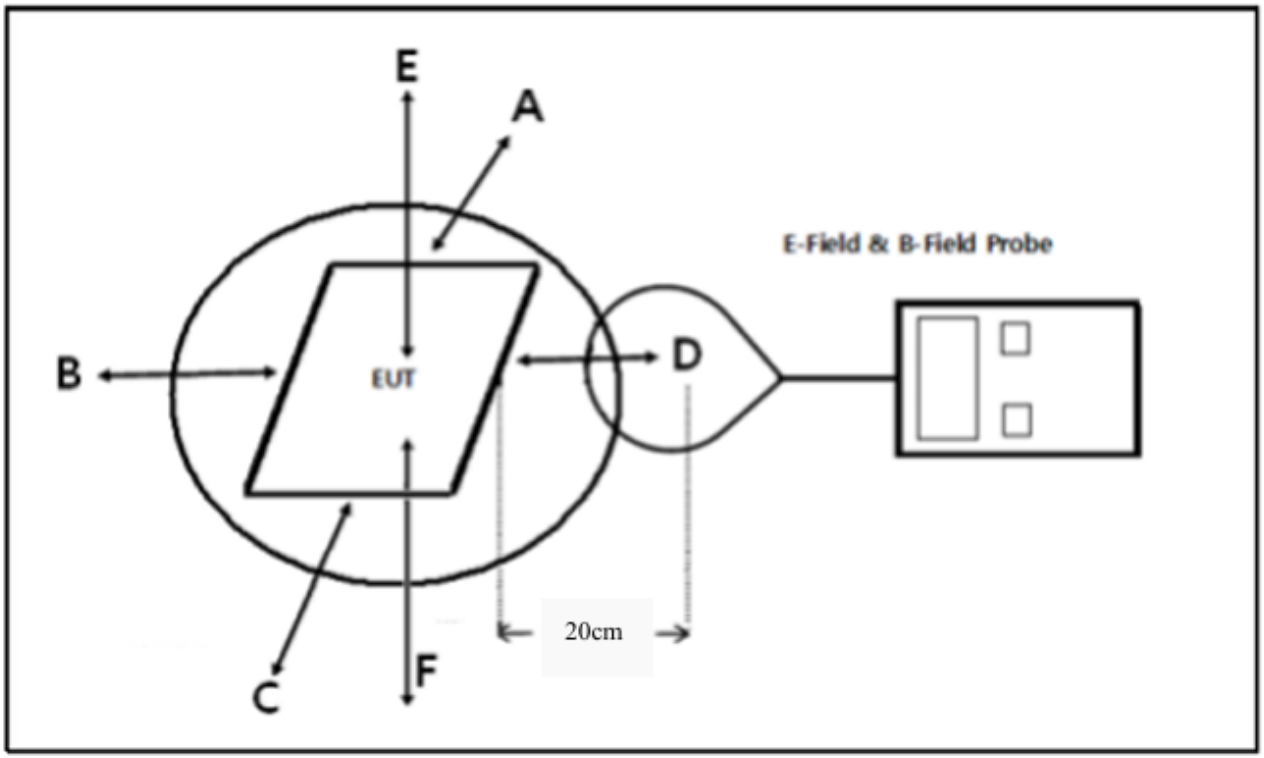
(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	**Electric Field Strength (V/m)**	**Magnetic Field Strength (A/m)**	**Power Density (mW/cm^2)**	**Averaging Time (minutes)**
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*($180/f^2$)	30
30–300	27.5	0.073	0.2	30
300–1500	/	/	f/1500	30
1500–100,000	/	/	1.0	30

f = frequency in MHz; * = Plane-wave equivalent power density;

According with 680106 D01 Wireless Power Transfer v04 clause 3.2

Accordingly, for § 2.1091-Mobile devices, the MPE limits between 100 kHz to 300 kHz are to be considered the same as those at 300 kHz in Table 1 of § 1.1310, that is, 614 V/m and 1.63 A/m, for the electric field and magnetic field, respectively.
For § 2.1093-Portable devices below 4 MHz and down to 100 kHz, the MPE limits in § 1.1310 (with the 300 kHz limit applicable all the way down to 100 kHz) can be used for the purpose of equipment authorization in lieu of SAR evaluations.

3. Block diagram of Test setup



Equipment Approval Considerations:

The EUT comply with KDB 680106 D01 Wireless Power Transfer v04.

1. Power transfer frequency is less than 1 MHz.

Yes, the device operated in the frequency range from 110kHz to 205kHz.

2. The output power from each transmitting element (e.g., coil) is less than or equal to 15 watts.

Yes, The maximum output power of each primary coil is 15 watts.

3. A client device providing the maximum permitted load is placed in physical contact with the transmitter(i.e., the surfaces of the transmitter and client device enclosures need to be in physical contact)

Yes, the client device includes only single primary coil.

4. Only § 2.1091-Mobile exposure conditions apply (i.e., this provision does not cover § 2.1093-Portable exposure conditions).

No, The EUT is Mobile exposure conditions apply.

5. The E-field and H-field strengths, at and beyond 20 cm surrounding the device surface, are demonstrated to be less than 50% of the applicable MPE limit, per KDB 447498, Table 1.

Yes; The EUT's field strength levels are less than 50% of the MPE limit.

6. For systems with more than one radiating structure, the conditions specified in (5) must be met when the system is fully loaded (i.e., clients absorbing maximum power available), and with all the radiating structures operating at maximum power at the same time, as per design conditions.

Yes, the EUT has only one coil, all test modes met the conditions specified in (5).

4. Test Procedures

1) Perform H-field and E-field measurements for each all sides of the EUT at 20cm, 22cm, 24cm along all the principal axes defined with respect to the orientation of the transmitting element (e.g., coil or antenna).
2) The highest emission level was recorded and compared with limit.
3) The EUT was measured according to 680106 D01 Wireless Power Transfer v04.

5. Test results

According KDB 680106 D01 Wireless Power Transfer v04

H-Field/E-Field Strength at 20 cm, 22cm, 24cm from the edges surrounding the EUT to antenna sensor.

Note: We tested at three distances: 20cm, 22cm, and 24cm, but only recorded the worst test data at 20cm.

EUT Test Mode	Measured H-Field Strength Values (A/m)						50% Limit (A/m)	Limit (A/m)	Result
	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F			
Device working at the maximum power	0.073	0.078	0.065	0.039	0. 084	0.194	0.815	1.63	Pass

EUT Test Mode	Measured H-Field Strength Values (A/m)			50% Limit (A/m)	Limit (A/m)	Result
	Test Position F(Direction of maximum field strength)					
Device working at the maximum power	X	Y	Z	0.815	1.63	Pass
	0.176	0.188	0.194			

Note: X, Y, Z represent the three worst points of F directions

EUT Test Mode	Measured E-Field Strength Values (V/m)						50% Limit (V/m)	Limit (V/m)	Result
	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F			
Device working at the maximum power	1.22	1.36	1.15	1.12	1.89	2.68	307	614	Pass

EUT Test Mode	Measured E-Field Strength Values (V/m)			50% Limit (A/m)	Limit (A/m)	Result
	Test Position F(Direction of maximum field strength)					
Device working at the maximum power	X	Y	Z	307	614	Pass
	2.37	2.49	2.68			

Note: X, Y, Z represent the three worst points of F directions

Statement

1. The report is invalid without the official seal or special seal of Shenzhen Haiyun Standard Technical Co., Ltd. (hereinafter referred to as the unit).

2. The report is invalid without the signature of the approver.

3. The report is invalid if altered arbitrarily.

4. The report shall not be partially copied without the written approval of the unit.

5. The reported test results are only valid for the tested samples.

6. If there is any objection to the test report, it shall be submitted to the test unit within 15 days from the date of receiving the report, and the overdue shall not be accepted.

Shenzhen Haiyun Standard Technical Co., Ltd.

Address: Room 110, 111, 112, 113, 115, 116, Block B, Jinyuan Business Building, No. 302, Xixiang Avenue, Labor Community, Xixiang Street, Baoan District, Shenzhen, China

(END OF REPORT)