

BioLite Inc.

TEST REPORT

SCOPE OF WORK

EMC TESTING-BGA0101

REPORT NUMBER

220329070GZU-002

ISSUE DATE

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Intertek Report No: 220329070GZU-002

FCC ID: 2A3GZBGA

Test standards

47 CFR PART 1, Subpart I, Section 1.1310
KDB 680106 D01 RF Exposure Wireless Charging App v03r01

Sample Description

Product : BaseCharge 600

Model No. : BGA0101

Electrical Rating : See page 5

Serial No. : Not Labeled

Date Received : 29 March 2022

Date Test : 30 July 2022

Conducted

Prepared and Checked By

Approved By:

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1.0 TEST RESULT SUMMARY

Classification of EUT: Class B

Test Item	Standard		Standard Resul	
EMF	47 CFR PART 1, Subpart I, Section 1.1310	PASS		

Remark:

When determining the test results, measurement uncertainty of tests has been considered.

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2.0 General Description

2.1 Product Description

Operating Frequency 120-204kHz

Type of Modulation: ASK

Antenna Type Inductive loop coil antenna

Power Supply: Battery Capacity: 622Wh (21.6V, 28.8Ah)

Output:

AC (2X):110V~60Hz, Rated power 600W each port, 1000W Surge,

Total 600W Pure Sine Wave

USB-C PD (1X): 5VDC 3A, 9VDC 3A, 12VDC 3A, 15VDC 3A, 20VDC

5A, 100W Max

USB-A (2X): 5VDC 3A, Total 30W Max USB-C (1X): 5VDC 3A, 15W MAX

Wireless Charging: 10W

Car Port&DC5521 (2X): 12VDC 10A each port, Total 120W Max

Total AC+DC Output 600W Max

Input:

Solar DC: 12-30V, 120W Max

USB-C PD (1X): 5VDC 3A, 9VDC 3A, 12VDC 3A, 15VDC 3A, 20VDC

5A, 100W Max, DC+USB-C PD Input Total 220W Max

Operating Temp: 0-40°C wires unscreened cable

Power cord: wires unscreened c

2.2 Test Facility

Room102/104, No 203, KeZhu Road, Science City, GETDD Guangzhou, China

A2LA Certificate Number 0078.10

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch is accredited by A2LA and Listed in FCC website. FCC accredited test labs may perform both Certification testing under Parts 15 and 18 and Declaration of Conformity testing.

2.3 EUT Exercising Software

N/A

2.4 Special Accessories

N/A



2.5 Equipment Modification

Any modifications installed previous to testing by BioLite Inc. will be incorporated in each production model sold / leased in the United States.

No modifications were installed by Intertek Testing Services Shenzhen Ltd. Guangzhou Branch.

2.6 Support Equipment List and Description

This product was tested with corresponding support equipment as below: Support Equipment:

Description	Manufacturer	Model No.	SN/Version	Supplied by
Adapter	DBK	YHY-19004740	100-240~, 50/60Hz, 2.0A	Client
Adapter	DBK	HW-200325CP0	100-240~, 50/60Hz, 5V/9V/12V/15V/20V	Client
cement resistor*5	-	5/2/0.5/1/10 Ω , 50W	-	Intertek
light bulb*2		100-240~, 50/60Hz,		Intertek
Slide rheostat*2		100-240~, 50/60Hz,		Intertek
WPT client		5W,7.5W,10W	110-205K	Customer
Voltage regulating controller			5V/9V/12V/15V/20V	Client

Cable

Description	Model No.	Connector type	Cable length/type	Supplied by
Antenna cable	RF-01	SMA	0.2 m(shielded)	Intertek
1 st light bulb	C-01	AC	1.1 m(unshielded)	Intertek
2 nd light bulb	C-02	AC	1.3 m(unshielded)	Intertek
1 st cement resistor cord	C-03	USB	0.6 m(unshielded)	Intertek
2 nd cement resistor cord	C-04	USB	0.6 m(unshielded)	Intertek
3 rd cement resistor cord	C-05	TYPE-C	0.6 m(unshielded)	Intertek
4 th cement resistor cord	C-06	TYPE-C	1.3 m(unshielded)	Intertek
5 th cement resistor	C-07	DC	0.3 m(unshielded)	Intertek



cord				
1 st Slide rheostat	C-08	DC	0.4 m(unshielded)	Intertek
2 nd Slide rheostat	C-09	DC	1.2 m(unshielded)	Intertek

Remark: WPT client was one of typical client devices, it's selected such that the EUT was fully exercised at maximum power from its transmitter. It will not be sold together.

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above evaluated respectively

Pretest mode	Description			
Standby Mode	kept transmitting continuously			
Charging Mode	CH: Low WPT client is charging at 1% batte			
	CH: Middle power, 50% and 99% battery power			
	CH: High	respectively, keep transmitting		
	continuously			



3.0 EMF TEST

3.1 Standard Requirement

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 limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.1m normally can be maintained between the user and the device.

(a) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S)(mW/cm²)	Averaging Times E 2 , H 2 or S (minutes)
0.3-3.0	0.3-3.0 614		(100)*	6
3.0-30	1842/f	4.89/f	(900/f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100000			5	6

(b) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S)(mW/cm²)	Averaging Times E ² , H ² or S (minutes)
0.3-1.34 614		1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100000			1.0	30

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

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3.2 Test Data

Input Voltage: 120V/60Hz Ambient Condition: 24°C, 50%RH

Test distance: 15 cm surrounding the device, and 20 cm away from the surface from the coil.

H-Filed Strength:

Test	Probe Measu	re Result (A/m)		50% Limit	Limit (A/m)
Position	WPT client	WPT client	WPT client	(A/m)	
	in 1%	in 50%	in 99%		
	battery	battery	battery		
	power	power	power		
Side 1	0.034	0.039	0.045	0.815	1.63
Side 2	0.045	0.033	0.034	0.815	1.63
Side 3	0.038	0.047	0.055	0.815	1.63
Side 4	0.044	0.054	0.065	0.815	1.63
Тор	0.043	0.056	0.072	0.815	1.63

4.0 Test Equipment List

Equip. No.	Equipment	Model	Manufacturer	Cal. date	Due date
EM007-03	Exposure Level Tester	ELT-400	NARDA	2022/2/28	2023/2/28