Lew Electric Fittings Company

MPE ASSESSMENT REPORT

Report Type:
FCC MPE assessment report

Model:
PUR/xx/xxxx/BTQWC-xxxx, PUR/xx/xxxx/BTQD-xxxx

REPORT NUMBER:
240800131SHA-004

ISSUE DATE:
November 1, 2024

DOCUMENT CONTROL NUMBER:
TTRFFCCMPE-02_V1

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TEST REPORT

Report no.: 240800131SHA-004

Applicant:	Lew Electric Fittings Company
	1626 Tobacco Rd, Augusta, GA 30906
Manufacturer:	Zhejiang Sino Electro-Technical Co.,Ltd.
	A5 Building, Sulv Industrial Zone,Yueqing City, Zhejiang Province 325604
Manufacturer Site:	Zhejiang Sino Electro-Technical Co.,Ltd.
	A5 Building, Sulv Industrial Zone,Yueqing City, Zhejiang Province 325604
Product Name:	Furniture Power Distribution Units, Attachment Plugs and Receptacles
Type/Model:	PUR/xx/xxxx/BTQWC-xxxx, PUR/xx/xxxx/BTQD-xxxx
FCC ID:	2A7NLPURBTQWC

SUMMARY:

The equipment complies with the requirements according to the following standard(s) or Specification:

FCC PART 1 SECTION 1.1310
KDB447498 D01 General RF Exposure Guidance v06
KDB 680106 D01 Wireless Power Transfer v04

PREPARED BY:	**REVIEWED BY:**
Project Engineer Dylan Tang	Reviewer Wakeyou Wang

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TEST REPORT

Revision History

Report No.	Version	Description	Issued Date
240800131SHA-004	Rev. 01	Initial issue of report	November 1, 2024

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TEST REPORT

Measurement result summary

TEST ITEM	FCC REFERANCE	TEST RESULT	NOTE
RF Exposure	1.1310	Pass	-

Notes: 1: NA =Not Applicable

2: Determination of the test conclusion is based on IEC Guide 115 in consideration of measurement uncertainty.

3: Additions, Deviations and Exclusions from Standards: None.

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TEST REPORT

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name:	Furniture Power Distribution Units, Attachment Plugs and Receptacles
Type/Model:	PUR/xx/xxxx/BTQWC-xxxx, PUR/xx/xxxx/BTQD-xxxx "xx": denotes the current specification of receptacles, can be 15=15amp, 20=20amp "xxxx" denotes installed with different type receptacles, can be G=with a GFCI, DS=with a decora receptacle, AC=with an A/C receptacle, GAC=with a GFCI and an A/C receptacle, AC2P= with two A/C receptacles, no code=without receptacles "xxxx": denotes different kind of tops, can be B=Brass top; SS=Stainless steel top; BK= Black painting top; WT= White painting top;DB= Dark bronze painting top; OW = Off white painting top; AWT= White painting top and white housing; NS= Nickel silver top; BS= Black stainless top; SN= Stain-nickel top; G=Graphite top; CB=Champagne Bronze top; RBK=Black PC top; RWT=Whtie pc top; RSS=Silver PC top; ROW= Off white PC top; RDB=Dark bronze pc top; RBR=Brass colored pc top; RAWT=White PC top base and white housing (XXXX can be 1 character, 2 characters, 3 characters or 4 characters)
Description of EUT:	The EUT is a Bluetooth Module which supports Bluetooth and Wireless charging function. The difference between the models is the AC Power line, and their circuitry is the same exactly. The model PUR/xx/xxxx/BTQWC-xxxx was chosen to test.
Rating:	125V 15A for 15A receptacle 125V/120V 20A for 20A receptacle
Category of EUT:	Class B
EUT type:	☒ Table top ☐ Floor standing
Software Version:	V1.0
Hardware Version:	V1.0
Sample received date:	January 15, 2024
Date of test:	January 15, 2024 ~ March 5, 2024

1.2 Technical Specification

Frequency Range:	111kHz – 205kHz
Modulation:	FSK
Antenna:	Coil antenna

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TEST REPORT

1.3 Description of Test Facility

Name:	Intertek Testing Services (Shanghai FTZ) Co., Ltd.
Address:	Building 86, No. 1198 Qinzhou Road(North), Shanghai 200233, P.R. China
Telephone:	86 21 61278200
Telefax:	86 21 54262353

The test facility is recognized, certified, or accredited by these organizations:	CNAS Accreditation Lab Registration No. CNAS L21189
	FCC Accredited Lab Designation Number: CN0175
	IC Registration Lab CAB identifier.: CN0014
	VCCI Registration Lab Registration No.: R-14243, G-10845, C-14723, T-12252
	A2LA Accreditation Lab Certificate Number: 3309.02

2 TEST SPECIFICATIONS

2.1 Standards or specification

FCC PART 1 SECTION 1.1310
KDB 680106 D01 Wireless Power Transfer v04
KDB447498 D01 General RF Exposure Guidance v06

2.2 Mode of operation during the test

Within this test report, EUT was tested under all modes and tested under its rating voltage and frequency. Other voltage and frequency are specified if used. The worst data was listed in the report.

2.3 Test peripherals list

Item No.	Name	Band and Model	Description
1	Wireless load	iphone x	100% power level
2	Wireless load	iphone x	50% power level
3	Wireless load	iphone x	0% power level

2.4 Record of climatic conditions

Test Item	Temperature (°C)	Relative Humidity (%)	Pressure (kPa)
RF Exposure	24	53	101

2.5 Instrument list

Used	Equipment	Manufacturer	Type	Internal no.	Due date
☑	Exposure Level Tester	Narda	NBM-550	EC 6113	2025-04-07
☑	E-Field sensor(100kHz-3GHz)	Narda	EF 0391	EC 6113-1	2025-04-07
☑	H-Field sensor(300kHz-30MHz)	Narda	HF 3061	EC 6113-2	2025-04-07
☑	Exposure Level Tester(1Hz-400kHz)	Narda	ELT-400	EC 2928	2025-07-15

2.6 Measurement uncertainty

Test Items	Expanded Uncertainty (k=2)
H-field	0.9 dB
E-field	1.1 dB

3 RF Exposure Assessment

Test result: **Pass**

3.1 Assessment Limit

Reference: 47 CFR §1.1310, KDB 680106

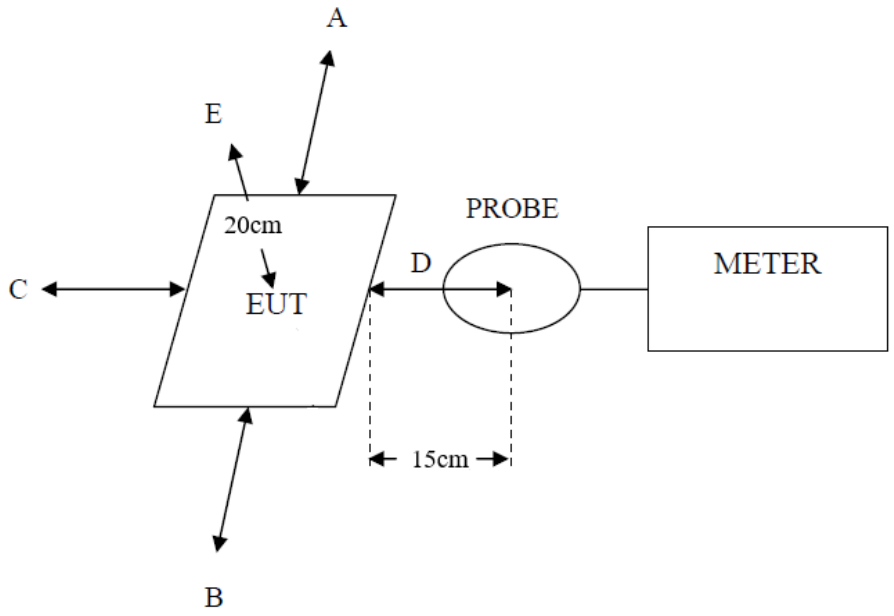
Limits for General Population/Uncontrolled Exposure

Frequency range [MHz]	Electric field strength [V/m]	Magnetic field strength [A/m]	Power density [mW/cm^2]	Averaging time [minutes]
0.1 – 0.3	614	1.63	*100	30
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 – 1 500	-	-	f/1500	30
1 500 – 100 000	-	-	1.0	30

Limits for Occupational/Controlled Exposure

Frequency range [MHz]	Electric field strength [V/m]	Magnetic field strength [A/m]	Power density [mW/cm^2]	Averaging time [minutes]
0.1 – 0.3	614	1.63	*100	6
0.3 – 3.0	614	1.63	*100	6
3.0 – 30	1842/f	4.89/f	*900/f^2	6
30 – 300	61.4	0.163	1.0	6
300 – 1 500	-	-	f/300	6
1 500 – 100 000	-	-	5	6

3.2 Assessment Configuration



3.3 Assessment Results

Test result of Magnetic Field Strength:

Test Position	Test distance (cm)	Test result (A/m)	Limit (A/m)	Result (Pass/Fail)
A: Right	15	0.244	1.63 *0.5	Pass
B: Left	15	0.153	1.63 *0.5	Pass
C: Front	15	0.346	1.63 *0.5	Pass
D: Back	15	0.105	1.63 *0.5	Pass
E: Top	20	0.052	1.63 *0.5	Pass

Test result of Electric Field Strength:

Test Position	Test distance (cm)	Test result (V/m)	Limit (V/m)	Result (Pass/Fail)
A: Right	15	1.029	614 *0.5	Pass
B: Left	15	1.273	614 *0.5	Pass
C: Front	15	1.147	614 *0.5	Pass
D: Back	15	1.242	614 *0.5	Pass
E: Top	20	0.579	614 *0.5	Pass

********** END **********