

CHAMPION POWER EQUIPMENT, INC.

MPE ASSESSMENT REPORT

Report Type:
FCC MPE assessment report

Model:
201188

REPORT NUMBER:
230400775HAN-002

ISSUE DATE:
November 6, 2023

DOCUMENT CONTROL NUMBER:
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Applicant : CHAMPION POWER EQUIPMENT, INC.
12039 SMITH AVENUE, SANTA FE SPRINGS, CA 90670, USA

Manufacturer : CHAMPION POWER EQUIPMENT, INC.
12039 SMITH AVENUE, SANTA FE SPRINGS, CA 90670, USA

Factory : Chongqing Radiance Energy Technology Co., Ltd
No. 123, Minzu Road, Yuzhong District, Chongqing, 400050, China.

FCC ID : YA3-CPEWC01

SUMMARY:

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

FCC PART 1 SECTION 1.1310

PREPARED BY:

REVIEWED BY:

Alex Wu
Project Engineer



Wakeyou Wang
Reviewer

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TEST REPORT**Revision History**

Report No.	Version	Description	Issued Date
230400775HAN-002	Rev. 01	Initial issue of report	November 6, 2023

TEST REPORT**Measurement result summary**

TEST ITEM	FCC REFERENCE	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.

TEST REPORT

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name:	Portable Power Station
Type/Model:	201188
Description of EUT:	<p>The Product covered by this report is a Portable Power Station. The EUT includes the wireless charging module: 10W, 112kHz – 148kHz.</p> <p>The EUT information was declared by the manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.</p> <p>Therefore, we test it under wireless charging mode and the worst testing data is listed in the report as representative.</p>
Rating:	<p>Wireless charger: 10W Max., 5Vdc, 1A or 7.5vdc, 1A or 9vdc, 1.12A (112kHz – 148kHz).</p> <p>Charging input: 120V~, 60Hz.</p> <p>Capacity 285Wh, 13Ah, AC output: 300W, 120V~, 60Hz.</p> <p style="text-align: right;">DC Output: 237W.</p>
Category of EUT:	Class B
EUT type:	<input checked="" type="checkbox"/> Tabletop <input type="checkbox"/> Floor standing
Software Version:	/
HVIN:	201188
Sample number:	1230808-23-001
Sample received date:	June 06, 2023
Date of test:	June 20-August 15, 2023

1.2 Technical Specification

Frequency Range:	112kHz – 148kHz
Modulation:	FSK
Antenna:	Coil antenna, 0dBi

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1.3 Description of Test Facility

Name:	Intertek Testing Services Shanghai
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 L0139
	FCC Accredited Lab Designation Number: CN0175
	IC Registration Lab CAB identifier.: CN0014
	VCCI Registration Lab Member No: 3598 (Registration No.: R-14243, G-10845, C-14723, T-12252)
	A2LA Accreditation Lab Certificate Number: 3309.02

TEST REPORT

2 TEST SPECIFICATIONS

2.1 Standards or specification

FCC PART 1 SECTION 1.1310
KDB 680106 D01 RF Exposure Wireless Charging App v03

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	Brand and Model	Description
1	Mobile phone	Apple iPhone12	S/N: FFYFP8EV0DYL

2.4 Record of climatic conditions

Test Item	Temperature (°C)	Relative Humidity (%)	Pressure (kPa)
RF Exposure	23	52	101

TEST REPORT**2.5 Instrument list**

Used	Equipment	Manufacturer	Type	Internal no.	Due date
<input checked="" type="checkbox"/>	Exposure Level Tester	Narda	NBM-550	EC 6113	2024-04-07
<input checked="" type="checkbox"/>	E-Field sensor(100kHz-3GHz)	Narda	EF 0391	EC 6113	2024-04-07
<input checked="" type="checkbox"/>	H-Field sensor(300kHz-30MHz)	Narda	HF 3061	EC 6113	2024-04-07
<input checked="" type="checkbox"/>	Exposure Level Tester(1Hz-400kHz)	Narda	ELT-400	EC 2928	2024-07-02

TEST REPORT

3 RF Exposure Assessment

Test result: Pass

3.1 Assessment Limit

Reference: 47 CFR §1.1310, KDB 680106

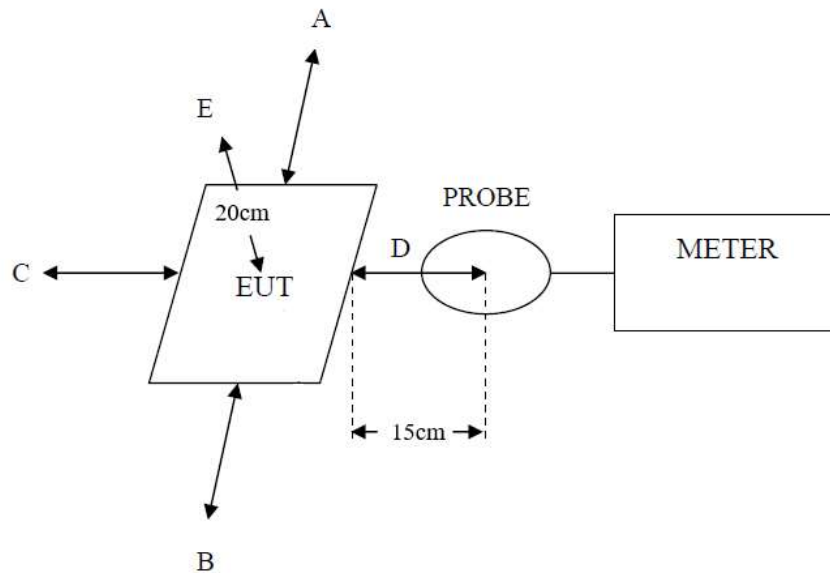
Limits for General Population/Uncontrolled Exposure

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



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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	0.037	1.63 *0.5	Pass
B: Left	15	0.041	1.63 *0.5	Pass
C: Front	15	0.042	1.63 *0.5	Pass
D: Back	15	0.038	1.63 *0.5	Pass
E: Top	20	0.032	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	0.82	614 *0.5	Pass
B: Left	15	0.81	614 *0.5	Pass
C: Front	15	0.76	614 *0.5	Pass
D: Back	15	0.74	614 *0.5	Pass
E: Top	20	0.53	614 *0.5	Pass

***** END *****