



Test Report No.: FM2412WDG0135



RF EXPOSURE TEST REPORT

Applicant	Belkin International, Inc.
Address	555 S. Aviation Blvd., Suite 180, El Segundo, CA 90245, USA

Manufacturer or Supplier	Belkin International, Inc.
Address	555 S. Aviation Blvd., Suite 180, El Segundo, CA 90245, USA
Product	BoostCharge Pro 2-in-1 Magnetic Charging Pad
Brand Name	belkin
Model	BU039
Additional Model & Model Difference	N/A
Date of tests	Dec. 25, 2024 ~ Jan. 08, 2025

The submitted sample of the above equipment has been tested according to the requirements of the following standard:

- 47 CFR PART 1, Subpart I, Section 1.1310
- KDB 680106 D01

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Prepared by Eric Fang Project Engineer / EMC Department	Approved by Glyn He Assistant Manager/ EMC Department
	
	Date: Jan. 20, 2025

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Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch

No. 96, Guantai Road (Houjie Section), Houjie Town, Dongguan City, Guangdong Province. 523942. People's Republic of China.

Tel.: +86 769 8998 2098
Fax: +86 769 8593 1080
Email: customerservice.dg@bureauveritas.com



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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM2412WDG0135	Original release	Jan. 20, 2025

1. GENERAL INFORMATION

1.1. GENERAL DESCRIPTION OF EUT

FCC ID	K7SBU039
PRODUCT	BoostCharge Pro 2-in-1 Magnetic Charging Pad
MODEL NO.	BU039
ADDITIONAL MODEL	N/A
POWER SUPPLY	Input: 15Vdc 2.4A From Adapter Output: USB-C: 5.0Vdc 1.0A
MODULATION TECHNOLOGY	FSK
OPERATING FREQUENCY RANGE	15W Qi2 Charging Coil (MPP):127.7kHz & 360kHz 5W Qi (BPP)/7.5W(iPhone) Charging Coil:111-148kHz
ANTENNA TYPE	Coil Antenna*2
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	See note 4

NOTES:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- For the test results, the EUT had been tested with all conditions, but only the worst case was shown in test report.
- Please refer to the EUT photo document (Reference No.: 2412WDG0135) for detailed product photo.
- Product cable information as follows:

ID	Descriptions	Qty.	Length (m)	Shielding (Y/N)	Cores (Qty.)	Manufacturer	Remark
1	USB-C to USB-C cable	1	1.5	Y	0	N/A	N/A

Remark: The cable comes in two colors: black and white.

- Adapter information as follows:

36 Watt PD Power Adapter	
MODEL NO.:	PD36U-1TNA
BRAND NAME:	CE-Link
INPUT:	100-240Vac, 50-60Hz, 1.0A Max
OUTPUT:	5.0V=3.0A, 9.0V=3.0A, 12.0V=3.0A, 15.0V=2.4A, 20.0V=1.8A Total:36.0W Max

2. RF EXPOSURE MEASUREMENT

2.1 LIMITS

§ 1.1310 The criteria listed in table 1 shall be used to evaluate the environmental impact of human exposure to radiofrequency(RF) radiation as specified in § 1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of § 2.1093 of this chapter.

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
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
300–1500 .....	.....	.....	f/300	6
1500–100,000 .....	.....	.....	5	6
(B) Limits for General Population/Uncontrolled Exposure				
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

NOTE 1 TO TABLE 1: Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

NOTE 2 TO TABLE 1: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or can not exercise control over their exposure.

Reference KDB 680106 D01 RF Exposure Wireless Charging App v03

The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

2.2 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested with associated equipment below

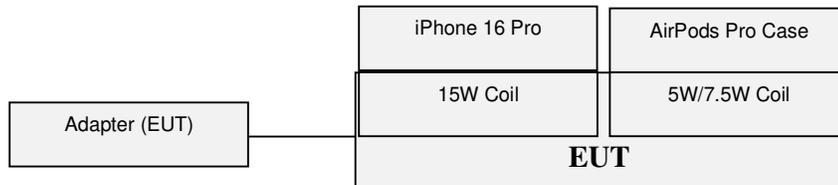
ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	iPhone 16 Pro(1#)	Apple	A3083 (MYM93LL/A)	HY9H79YM6Y	BCG-E8666A	BV Lab.
B	iPhone 16 Pro(2#)	Apple	A3083 (MYM93LL/A)	C57JWWWYG0	BCG-E8666A	
C	iPhone 11 Pro	Apple	MWDD2CH/A	F17ZMCAMN6YL	N/A	
D	AirPods Pro Case	Apple	A2190	GXDGF8W1059	N/A	
E	Apple watch Series 7	Apple	A2474	T9VJ36WRRV	N/A	

2.3 CONFIGURATION OF SYSTEM UNDER TEST

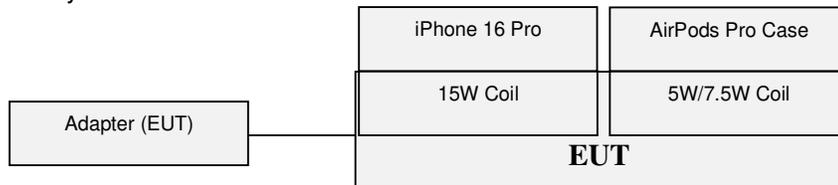
Mode 1: Standby



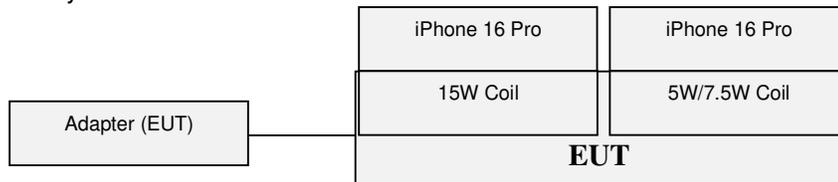
Mode 2: EUT 15W Coil Charging to iPhone 16 Pro 10% Battery+ 5W/7.5W Coil Charging to AirPods Pro Case 10% Battery



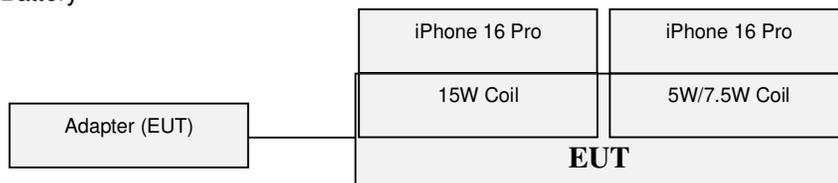
Mode 3: EUT 15W Coil Charging to iPhone 16 Pro 90% Battery+ 5W/7.5W Coil Charging to AirPods Pro Case 90% Battery



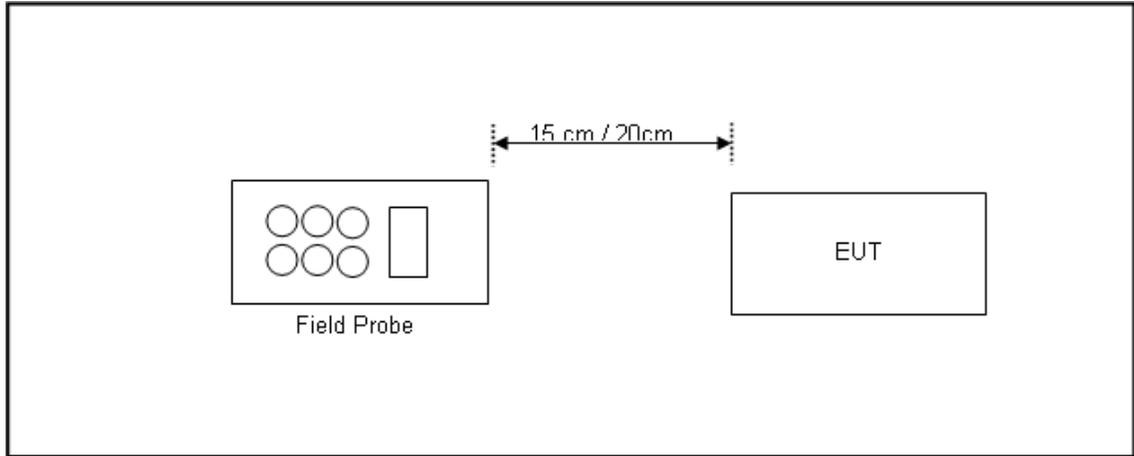
Mode 4: EUT 15W Coil Charging to iPhone 16 Pro 10% Battery+ 5W/7.5W Coil Charging to iPhone 16 Pro 10% Battery



Mode 5: EUT 15W Coil Charging to iPhone 16 Pro 90% Battery+ 5W/7.5W Coil Charging to iPhone 16 Pro 90% Battery



2.4 TEST SETUP FOR WPC



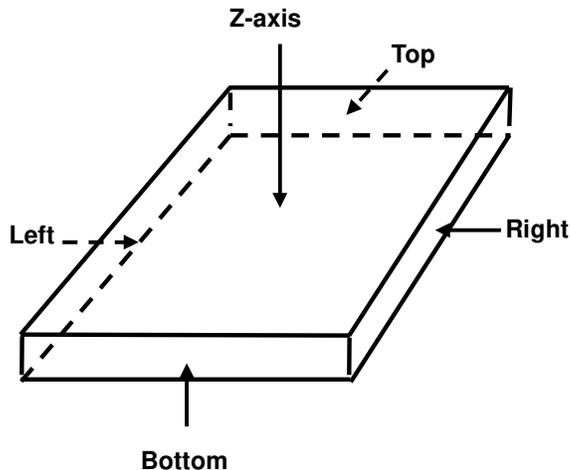
Note: Measurements should be made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device.

2.5 EQUIPMENTS USED DURING TEST

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
E-Field probe	Narda	NBM-520	2403/01B	Apr. 05, 25
Electric and Magnetic Field Probe-Analyzer	Narda	EHP-200A	180ZX10216	Feb. 19, 25
3m Fully Anechoic Chamber	Chance Most	8m*4m*4m	D3040011DG	May 27, 25
Test Software	Narda	EHP200-TS	V1.94	N/A

- NOTE:**
1. The test was performed in RS chamber.
 2. Equipment are calibrated by calibration laboratory accredited to ISO/IEC 17025 by a mutually recognized Accreditation and all tests are conducted within a valid calibration cycle.

2.6 TEST POINT DESCRIPTION



2.7 TEST RESULTS

Mode 1: Standby For 15W Coil

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	0.4571	0.8889	0.4276	0.3361	0.3634
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-613.5429	-613.1111	-613.5724	-613.6639	-613.6366
50% Limit (V/m)	307	307	307	307	307
50% Margin (V/m)	-306.5429	-306.1111	-306.5724	-306.6639	-306.6366

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (A/m)	0.026	0.603	0.039	0.019	0.157
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.604	-1.027	-1.591	-1.611	-1.473
50% Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50% Margin (A/m)	-0.789	-0.212	-0.776	-0.796	-0.658

Mode 1: Standby For 5W/7.5W Coil

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	0.4762	0.9271	0.5211	0.4101	0.4032
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-613.5238	-613.0729	-613.4789	-613.5899	-613.5968
50% Limit (V/m)	307	307	307	307	307
50% Margin (V/m)	-306.5238	-306.0729	-306.4789	-306.5899	-306.5968

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (A/m)	0.034	0.704	0.041	0.021	0.176
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.596	-0.926	-1.589	-1.609	-1.454
50% Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50% Margin (A/m)	-0.781	-0.111	-0.774	-0.794	-0.639



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Mode 2: EUT+15W Coil iPhone 16 Pro 10% Battery Charging+ 5W/7.5W Coil AirPods Pro Case 10% Battery Charging For 15W Coil

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	0.363	1.011	0.597	0.271	0.563
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-613.6372	-612.9887	-613.4034	-613.7289	-613.4373
50% Limit (V/m)	307	307	307	307	307
50% Margin (V/m)	-306.6372	-305.9887	-306.4034	-306.7289	-306.4373

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (A/m)	0.027	0.428	0.044	0.018	0.150
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.603	-1.202	-1.587	-1.612	-1.480
50% Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50% Margin (A/m)	-0.788	-0.387	-0.772	-0.797	-0.665

Mode 2: EUT+15W Coil iPhone 16 Pro 10% Battery Charging+ 5W/7.5W Coil AirPods Pro Case 10% Battery Charging For 5W/7.5W Coil

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	0.4512	1.041	0.4811	0.7109	0.611
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-613.5488	-612.959	-613.5189	-613.2891	-613.389
50% Limit (V/m)	307	307	307	307	307
50% Margin (V/m)	-306.5488	-305.959	-306.5189	-306.2891	-306.389

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (A/m)	0.035	0.446	0.069	0.086	0.158
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.595	-1.184	-1.561	-1.545	-1.472
50% Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50% Margin (A/m)	-0.780	-0.369	-0.746	-0.730	-0.657



Mode 3: EUT+15W Coil iPhone 16 Pro 90% Battery Charging+ 5W/7.5W Coil AirPods Pro Case 90% Battery Charging For 15W Coil

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	0.4571	0.8889	0.4276	0.3361	0.3634
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-613.5429	-613.1111	-613.5724	-613.6639	-613.6366
50% Limit (V/m)	307	307	307	307	307
50% Margin (V/m)	-306.5429	-306.1111	-306.5724	-306.6639	-306.6366

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (A/m)	0.026	0.603	0.039	0.019	0.157
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.604	-1.027	-1.591	-1.611	-1.473
50% Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50% Margin (A/m)	-0.789	-0.212	-0.776	-0.796	-0.658

Mode 3: EUT+15W Coil iPhone 16 Pro 90% Battery Charging+ 5W/7.5W Coil AirPods Pro Case 90% Battery Charging For 5W/7.5W Coil

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	0.4762	0.9271	0.5211	0.4101	0.4032
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-613.5238	-613.0729	-613.4789	-613.5899	-613.5968
50% Limit (V/m)	307	307	307	307	307
50% Margin (V/m)	-306.5238	-306.0729	-306.4789	-306.5899	-306.5968

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (A/m)	0.034	0.704	0.041	0.021	0.176
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.596	-0.926	-1.589	-1.609	-1.454
50% Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50% Margin (A/m)	-0.781	-0.111	-0.774	-0.794	-0.639



Mode 4: EUT+15W Coil iPhone 16 Pro 10% Battery Charging+ 5W/7.5W Coil iPhone 16 Pro 10% Battery Charging For 5W/7.5W Coil

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	0.4985	0.8021	0.7734	1.0903	0.5447
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-613.5015	-613.1979	-613.2266	-612.9097	-613.4553
50% Limit (V/m)	307	307	307	307	307
50% Margin (V/m)	-306.5015	-306.1979	-306.2266	-305.9097	-306.4553

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (A/m)	0.236	0.036	0.095	0.138	0.137
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.394	-1.594	-1.535	-1.492	-1.493
50% Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50% Margin (A/m)	-0.579	-0.779	-0.720	-0.677	-0.678

Mode 5: EUT+15W Coil iPhone 16 Pro 90% Battery Charging+ 5W/7.5W Coil iPhone 16 Pro 90% Battery Charging For 5W/7.5W Coil

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	0.4963	0.8901	0.8101	1.041	0.4638
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-613.5037	-613.1099	-613.1899	-612.959	-613.5362
50% Limit (V/m)	307	307	307	307	307
50% Margin (V/m)	-306.5037	-306.1099	-306.1899	-305.959	-306.5362

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (A/m)	0.338	0.033	0.082	0.102	0.148
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.292	-1.597	-1.548	-1.528	-1.482
50% Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50% Margin (A/m)	-0.477	-0.782	-0.733	-0.713	-0.667



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3. PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).

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