

Test report

Number: **T251-0207/25** **Project file:** **C20242750**
Date: **2025-07-14**
Pages: **6**

Product: **Wireless charger**

Type reference: **buzzard bird40A**

Ratings: Input: WPT (Magnetic field)
Output: 18 – 60 V d.c.
Class III

Trademark: multipowr

Applicant: **Multipowr NV**
Finlandstraat 11, 9940 Evergem, Belgium

Manufacturer: Multipowr NV
Finlandstraat 11, 9940 Evergem, Belgium

Place of manufacture: Simonyi Technology
Hunyadi út 28, 2699 Szugy, Hungary

Summary of testing

Testing method: 47 CFR FCC Part 1.1307(clause (b)(1)(i)(B) and (b)(3)(ii)(B)),
KDB 447498 D01 General RF Exposure Guidance v06
KDB 680106 D01 RF Exposure Wireless Charging App v04r01

Testing location: SIQ Ljubljana
Mašera-Spasičeva ulica 10, SI-1000 Ljubljana, Slovenia

Remarks: Date of receipt of test items: 2025-02-10
Number of items tested: 1
Date of performance of tests: 2025-03-12
The test results presented in this report relate only to the items tested.
The test items were tested in the condition as received.
The product complies with the requirements of the testing methods.

Tested by: Nik Vončina

Approved by: Marjan Mak

The report shall not be reproduced except in full.

CONTENTS	page
<u>1 GENERAL</u>	<u>3</u>
1.1 EQUIPMENT UNDER TEST	3
<u>2 ASSESSMENT PROCEDURE</u>	<u>4</u>
<u>3 MEASUREMENTS / CALCULATIONS</u>	<u>5</u>
<u>4 EQUIPMENT LIST</u>	<u>6</u>

1 GENERAL

History sheet			
Date	Report No.	Change	Revision
2025-07-14	T251-0207/25	Initial Test Report issued.	--

1.1 Equipment under test

Wireless charger

Type: **buzzard bird40A**

Environment: Controlled / Workplace area

Assessment distance: 20 cm

FCC ID:

FCC ID: **2BOHG-B04000001**

Contains FCC ID: **A8TBM78ABCDEFGH**

Wireless charger Buzzard consists of buzzard bird40A and buzzard nest40A.

Assessed functions: NFC, Bluetooth and wireless power transfer.

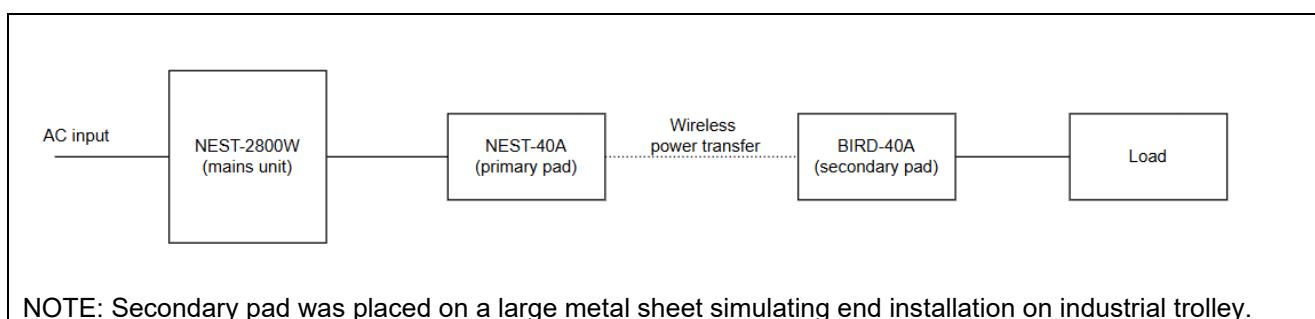
NFC and Bluetooth do not transmit simultaneously. NFC is active on a BIRD pad, after Bluetooth is initialised, NFC is turned off and WPT starts charging the battery.

Power transfer function has been disabled for NFC measurements, only 300 kHz communication was working and evaluated.

Sample has been turned on with maximum power transferred between pads. While working, Bluetooth communication was active between the bird and nest pads.

Measurement distances were set as in table below under clause 3 of this report. Marking of positions is as per below pictures.

Configuration diagram:



NOTE: The information in this section has been provided by the applicant.

2 ASSESSMENT PROCEDURE

RF EXPOSURE REQUIREMENTS according 680106 D01 RF Exposure Wireless Charging App v04r01

RF exposure must be evaluated with the client device(s) being charged by the primary at maximum output power. The RF exposure requirements must be determined in conjunction with the device operating characteristics, according to the mobile and portable exposure requirements in Sections 2.1091 and 2.1093 of the rules.

RF exposure compliance is determined with respect to Sections 1.1307 (c) and (d) of the FCC rules.

Evaluation is based on following conditions:

field strengths do not exceed the following reference levels:

- 83 V/m for the electric field

and

- 90 A/m for the magnetic field.

Sample has been turned on with maximum power transferred between pads. While working, communication was active. Measurement distances were set as in table below under clause 3 of this report.

Radiofrequency radiation exposure according 47 CFR 1.1307 clause (b)(1)(i)(B):

With respect to the limits on human exposure to RF provided in § 1.1310 of this chapter, applicants to the Commission for the grant or modification of construction permits, licenses or renewals thereof, temporary authorities, equipment authorizations, or any other authorizations for radiofrequency sources must prepare an evaluation of the human exposure to RF radiation pursuant to § 1.1310 and include in the application a statement confirming compliance with the limits in § 1.1310.

Limits:

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 Exposure				
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 MEASUREMENTS / CALCULATIONS

Values for each configuration are listed in the following table:

RF EXPOSURE REQUIREMENTS according 680106 D01 RF Exposure Wireless Charging App v04r01:

View Direction	Distance (mm)	E-field [V/m]	B-field [uT]	Limit E [V/m]	Limit B [uT]	Comment
Left of NEST and BIRD ¹⁾	200	9.21	3.56	614	113.1	/
Right of NEST and BIRD ¹⁾	200	13.78	6.50	614	113.1	/
Back side of NEST ¹⁾	200	1.37	3.56	614	113.1	/
Below of NEST and BIRD ¹⁾	200	4.68	3.84	614	113.1	/
Above of NEST and BIRD ¹⁾	200	5.25	4.63	614	113.1	/
Back side of BIRD ¹⁾	200	2.37	3.31	614	113.1	/

NOTE: operating WPT frequency is 290 – 300 kHz.

¹⁾ entire side was scanned, all three-axis measured simultaneously.
Measurements presented are worst cases

Radiofrequency radiation exposure according 47 CFR 1.1307 clause (b)(1)(i)(B):

Frequency (MHz)	Side of the EUT and its distance to the measuring probe	Maximum obtained value		Limit	
		E-field (V/m)	H-field (A/m)	E-field (V/m)	H-field (A/m)
0.29 – 0.30	Right of BIRD at 200 mm distance ¹⁾	0.41	0.07	135.84	1.63
0.29 – 0.30	Front of BIRD at 200 mm distance ¹⁾	0.79	0.38	135.84	1.63
0.29 – 0.30	Below of BIRD at 200 mm distance ¹⁾	0.41	0.05	135.84	1.63
0.29 – 0.30	Left of BIRD at 200 mm distance ¹⁾	0.37	0.05	135.84	1.63
0.29 – 0.30	Above of BIRD at 200 mm distance ¹⁾	0.46	0.06	135.84	1.63
0.29 – 0.30	Back of BIRD at 200 mm distance ¹⁾	0.44	0.04	135.84	1.63

¹⁾ entire side was scanned, all three-axis measured simultaneously.

Measurements presented are worst cases

Frequency (MHz)	Side of the EUT and its distance to the measuring probe	Maximum obtained value		Limit
		E-field (V/m)	Power density (mW/cm ²)	E-field (mW/cm ²)
2400	Right of NEST and BIRD at 200 mm distance ¹⁾	0.16	0.000007	5
2400	Above of NEST and BIRD at 200 mm distance ¹⁾	0.19	0.000010	5
2400	Below of NEST and BIRD at 200 mm distance ¹⁾	0.27	0.000019	5
2400	Left of NEST and BIRD at 200 mm distance ¹⁾	0.17	0.000008	5
2400	Back of NEST at 200 mm distance ¹⁾	0.21	0.000012	5
2400	Back of BIRD at 200 mm distance ¹⁾	0.18	0.000009	5

Maximum simultaneous transmission contribution according 47 CFR FCC Part 1.1307(clause (b)(3)(ii)(B)):

Mode	WPT	Bluetooth	Total	Limit
Contribution (E-Field)	0.224	0.0000038	0.224	1
Contribution (H-Field)	0.575	/	0.575	1

NOTE: simultaneous transmission is only possible with WPT and Bluetooth.

4 EQUIPMENT LIST

Equipment	Manufacturer	Type	SIQ Number	Last calibration date	Last due date
Automotive SAC	Comtest Engineering	CISPR25	/	N/A	N/A
EMF meter	Wavecontrol	SMP3	/	With measuring probe	With measuring probe
Electric / Magnetic field probe	Wavecontrol	WP10M	/	2024-01-23	2025-07-23
Electric field probe	Wavecontrol	WPF18	/	2024-01-24	2025-07-24

-----END OF TEST REPORT-----