

Test report

Number: T251-0472/25 A1

Project file: C20250839

Date: 2026-02-25

Pages: 8

Product: Charger System Wireless (CS WPB STD 10KW 3AC, CS WPP STD 10KW and CS WSU STD 10kW 50V or CS WSU STD 10kW 36V)

Type reference: EOE17010813, EOE17010950, EOE17010951 and EOE17011077

Ratings: See page 3.

Trademark:



Applicant: Delta Energy Systems
Tscheulinstrasse 21, 79331 Teningen, Germany

Manufacturer: Delta Energy Systems
Tscheulinstrasse 21, 79331 Teningen, Germany

Place of manufacture: Delta Slovakia s.r.o.
Priemyselná 4600/1, 01841 Dubnica nad Váhom, Slovakia

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: 2025-05-22
Number of items tested: 3
Date of performance of tests: 2025-06-06 – 2025-06-12
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



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1 GENERAL

History sheet			
Date	Report No.	Change	Revision
2025-07-22	T251-0472/25	Initial Test Report issued.	--
2026-02-25	T251-0472/25 A1	This test report substitutes previously issued test report T251-0472/25, dated 2025-07-22, due to amendment of the test report. Additional results for 36 V version's portrait orientation obtained and added to the table on the page 7.	1.0

1.1 Equipment under test

Charger System Wireless (CS WPB STD 10KW 3AC, CS WPP STD 10KW and CS WSU STD 10kW 50V or CS WSU STD 10kW 36V)

Type: **EOE17010813, EOE17010950, EOE17010951 and EOE17011077**

Environment: Controlled / Workplace area

Assessment distance: see below table with results

FCC ID:

- for WPU: **2AVWKWPU10KW**
- for WSU: **2AVWKWSU10KW**

Device is a wireless charger for charging batteries. It consists of Primary Box (**EOE17010813**) that gets power from the grid and of Primary Pad (**EOE17010951**) that transfers the energy. Energy is transferred in the frequency range 55 – 65 kHz. Communication between primary and secondary pad (**EOE17010950** or **EOE17011077**) is at 13,56 MHz.

Ratings:

- For EOE17010813:
 - Input: 400 V a.c.; 50 Hz; 480 V a.c.; 60 Hz; 18 A; 3Ph + PE
 - Output: pairing with WPP
- For EOE17010951:
 - Input: Supplied by WPB
 - Output: pairing with WSU
- For EOE17010950:
 - Input: Pairing with WPP
 - Input Aux: 24-60 V d.c.; 200 mA; 36-60 V d.c.; max 200 A
 - Output Aux: 5 V d.c.; 100 mA
- For EOE17011077:
 - Input: Pairing with WPP
 - Input Aux: 18-44 V d.c.; 200 mA; 18-44 V d.c.; max 280 A
 - Output Aux: 5 V d.c.; 100 mA

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

Measurement was done on WPP and WSP separately to show radiation exposure of both devices. Both were programmed to continuously work in communication mode only. Power transfer function has been disabled for this measurements, only 13.56 MHz communication was working and evaluated.

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. Marking of positions is as per below pictures.

3 MEASUREMENTS / CALCULATIONS

Values for each configuration are listed in the following tables:

50 V version:

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

View	Mode	Direction	Distance (cm)	E-field [V/m]	B-field [uT]	Limit E [V/m]	Limit B [uT]	Comment
From Front side of WPP	Portrait	Above (WPP cable side)	20	5.35	34.37	83	113.04	/
	Portrait	Below (opposite to WPP cable side)	37	81.48	27.75	83	113.04	Measured above the below edge
	Portrait	Right (WPP LED side)	38	71.40	39.60	83	113.04	/
	Portrait	Left (opposite to WPP LED side)	45	55.73	38.45	83	113.04	/
	Portrait	Back side of WPP	20	30.96	26.70	83	113.04	/
	Portrait	Back of WSU	20	26.60	61.00	83	113.04	/
	Landscape	Above (WPP LED side)	35	75.27	44.60	83	113.04	/
	Landscape	Below (opposite to WPP LED side)	40	44.36	41.09	83	113.04	/
	Landscape	Right (opposite to WPP cable side)	45	56.77	20.10	83	113.04	/
	Landscape	Left (WPP cable side)	20	38.96	34.26	83	113.04	/
	Landscape	Back side of WPP	20	30.96	26.70	83	113.04	/
	Landscape	Back of WSU	20	19.98	61.76	83	113.04	/

NOTE: operating frequency is 55 – 65 kHz.

¹⁾ entire height was scanned

Measurements presented are worst cases

**36 V version:****RF EXPOSURE REQUIREMENTS according 680106 D01 RF Exposure Wireless Charging App v04r01:**

View	Mode	Direction	Distance (cm)	E-field [V/m]	B-field [uT]	Limit E [V/m]	Limit B [uT]	Comment
From Front side of WPP	Portrait	Above (WPP cable side)	20	36.88	34.27	83	113.04	/
	Portrait	Below (opposite to WPP cable side)	37	79.79	28.41	83	113.04	Measured above the below edge
	Portrait	Right (WPP LED side)	40	71.83	44.56	83	113.04	/
	Portrait	Left (opposite to WPP LED side)	45	61.42	42.69	83	113.04	/
	Portrait	Back side of WPP	20	24.06	38.78	83	113.04	/
	Portrait	Back of WSU	20	49.27	66.91	83	113.04	/
	Landscape	Above (WPP LED side)	35	78.20	49.90	83	113,04	/
	Landscape	Below (opposite to WPP LED side)	36	72.06	50.52	83	113,04	/
	Landscape	Right (opposite to WPP cable side)	45	58.43	21.20	83	113,04	/
	Landscape	Left (WPP cable side)	20	42.17	36.71	83	113,04	/
	Landscape	Back side of WPP	20	24.06	38.78	83	113,04	/
	Landscape	Back of WSU	20	49.27	66.91	83	113,04	/

NOTE: operating frequency is 55 – 65 kHz.

¹⁾ entire height was scanned

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)
13.56	Above of WPP at 200 mm distance ¹⁾	0.39	0.007	135.84	0.36
13.56	Below of WPP at 200 mm distance ¹⁾	0.41	0.005	135.84	0.36
13.56	Right of WPP at 200 mm distance ¹⁾	0.42	0.007	135.84	0.36
13.56	Left of WPP at 200 mm distance ¹⁾	0.44	0.005	135.84	0.36
13.56	Back of WPP at 200 mm distance ¹⁾	0.42	0.04	135.84	0.36
13.56	Front of WPP at 200 mm distance ¹⁾	0.43	0.05	135.84	0.36
13.56	Above of WSP at 200 mm distance ¹⁾	0.39	0.007	135.84	0.36
13.56	Below of WSP at 200 mm distance ¹⁾	0.39	0.004	135.84	0.36
13.56	Right of WSP at 200 mm distance ¹⁾	0.43	0.01	135.84	0.36
13.56	Left of WSP at 200 mm distance ¹⁾	0.42	0.01	135.84	0.36
13.56	Back of WSP at 200 mm distance ¹⁾	0.42	0.02	135.84	0.36
13.56	Front of WSP at 200 mm distance ¹⁾	0.42	0.03	135.84	0.36
¹⁾ entire height was scanned Measurements presented are worst cases					

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

Mode	WPT	RFID	Total	Limit
Contribution (E-Field)	0.982	0.0032	0.9852	1
Contribution (H-Field)	0.592	0.1389	0.7309	1

Conclusion: **PASS**



4 EQUIPMENT LIST

Equipment	Manufacturer	Type	SIQ Number	Last calibration date	Last due date
CISPR 25	Comtest Engineering	SAC 3m	109072	N/A	N/A
EMF meter	Wavecontrol	SMP3	/	With measuring probe	With measuring probe
Electric / Magnetic field probe	Wavecontrol	WP10M	/	2025-02-12	2026-08-12
Electric field probe	Wavecontrol	WPF18	/	2025-02-12	2026-08-12
Magnetic field probe	Wavecontrol	WPH60	/	2025-02-13	2026-08-13

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