

RF Exposure Evaluation Declaration

Product Name : Electric Vehicle (EV) Supply Equipment

Brand Name : DELTA ELECTRONICS, INC.

Model No. : EIAW-U11KSSU7A04, EIAW-U19KSSU7A04

FCC ID : H79EIAWU19KSS

Applicant : Delta Electronics Incorporated

Address : 3 Tungyuan Road Chungli Industrial Zone, Taoyuan County,

32063, Taiwan

Date of Receipt : Oct. 19, 2021

Issued Date : Dec. 23, 2021

Report No. : 21A0519R-RFUSMPEV02-A

Report Version : V1.0



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

This report must not be used to claim product endorsement by TAF or any agency of the government. Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement. The test report shall not be reproduced except in full without the written approval of DEKRA Testing and Certification Co., Ltd.

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Test Result for Inspection



Product Name : Electric Vehicle (EV) Supply Equipment

Applicant : Delta Electronics Incorporated

3 Tungyuan Road Chungli Industrial Zone, Taoyuan County, Address :

32063, Taiwan

Manufacturer : Delta Electronics Incorporated

3 Tungyuan Road Chungli Industrial Zone, Taoyuan County,

Address : 32063, Taiwan

Brand Name : DELTA ELECTRONICS, INC.

Model No. : EIAW-U11KSSU7A04, EIAW-U19KSSU7A04

FCC ID : H79EIAWU19KSS

EUT Voltage : AC 208~240V Testing Voltage : AC 220V/60Hz

Applicable Standard : FCC 47 CFR Part 2.1091 Radiofrequency radiation exposure

evaluation: mobile devices.

Test Lab : Hsin Chu Laboratory

Address : No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu

County 310, Taiwan, R.O.C.

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Test Result : Complied

Documented By : Hailey Peng

(Hailey Peng / Senior Engineer)

Approved By :

(Louis Hsu / Deputy Manager)

The test results relate only to the samples tested.

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Revision History

Version	Description	Issued Date
V1.0	Initial issue of report	Dec. 23, 2021

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1. General Information

1.1. EUT General Information

RF General Information					
Evaluation Frequency Range Operating Frequency (MHz) (MHz)			Modulation Type		
WLAN 2.4 GHz	2400 ~ 2483.5	2412 ~ 2462	802.11b: DSSS 802.11g/n: OFDM		
RFID	13.553 ~ 13.567	13.56	ASK		

The difference for each model is shown as below:

Model No.	Rating		
EIAW-U11KSSU7A04	208-240Vac, 1P48A, 60Hz		
EIAW-U19KSSU7A04	208-240Vac, 1P80A, 60Hz		

From the above models, model: EIAW-U19KSSU7A04 was selected as representative model for the test and its data was recorded in this report.

Note: The above EUT information is declared by the manufacturer.

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1.2. Test Facility

Laboratory Information

USA : FCC Registration Number: TW3024

Canada CAB identifier : TW3024

The address and introduction of DEKRA Testing and Certification Co., Ltd. laboratories can be founded in our Web site: http://www.dekra.com.tw

If you have any comments, please don't hesitate to contact us. Our test sites as below:

Test Laboratory	DEKRA Testing and Certification Co., Ltd.		
Address	1. No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061,		
	Taiwan, R.O.C.		
	2. No.372, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061,		
	Taiwan, R.O.C.		
Phone number	1. +886-3-582-8001		
	2. +886-3-582-8001		
Fax number	1. +886-3-582-8958		
	2. +886-3-582-8958		
E mail address	info.tw@dekra.com		
Website	http://www.dekra.com.tw		

Note: Test site number for address 1 includes SR2-H. Test site number for address 2 includes CB2-H, CB3-H, CB4-H, SR10-H and SR12-H.

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2. RF Exposure Evaluation

2.1. Test Limit

(A) Test Limit for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Power Density (S) Strength (H) (A/m) (mW/ cm²)		Averaging Time E ², H ² or S (minutes)	
0.3-3.0	614	1.63	*(100)	<6	
3.0-30	1842/f	4.89/f	*(900/f²)	<6	
30-300	61.4	0.163	1.0	<6	
300-1500	-	-	f/300	<6	
1500-100,000	-	-	5	<6	

(B) Test Limit for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Power Density (S) Strength (H) (A/m) (mW/ cm²)		Averaging Time E ², H ² or S (minutes)
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

Note: f = frequency in MHz; *Plane-wave equivalent power density

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Power Density (S) is calculated by the following formula:

 $S=(P*G)/4\pi R^2$

where:

S = power density (in appropriate units, e.g. mW/ cm²)

P = power input to the antenna (in appropriate units, e.g., mW)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

 $\pi = 3.1416$

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

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2.2. Test Result of RF Exposure Evaluation

Exposure Environment: General Population / Uncontrolled Exposure

Evaluation Mode	E.I.R.F (dBm)		E.I.R.P (mW)	Power Density (mW/cm²)	Limit (mW/cm²)	Test Result (PASS/FAIL)
WLAN 2.4 GHz	18.830		76.384	0.015	1.000	PASS
Evaluation Mode	Field Strength (dBuV/m@30m)	E.I.R.P (dBm)	E.I.R.P (mW)	Power Density (mW/cm²)	Limit (mW/cm²)	Test Result (PASS/FAIL)
RFID	15.95	-39.25	0.0001	0.00000002	0.9789	PASS

For RFID: E.I.R.P (dBm) = Field Strength (dBuV/m@30m) + (40*log (30/3)) - 95.2

Distance (cm): 20 for Maximum Permissible Exposure.

Note:

- 1. The above EUT information is declared by the manufacturer.
- 2. The results are evaluated using the maximum power.
- 3. The EUT does not support co-location function, all of these RF modules will not transmit simultaneously. Therefore, there is no need to calculate Co-location Maximum Permissible Exposure.

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