EMC TEST REPORT

FCC ID: 2AUHG-12FM-EMC

Report No. : SSP24050164-1E

Applicant: ARTIKA FOR LIVING INC

Product Name: Empress flushmount

Model Name : 12FM-EMC

Test Standard : FCC Part 15 Subpart B

Date of Issue : 2024-06-20



Shenzhen CCUT Quality Technology Co., Ltd.

1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China; (Tel.:+86-755-23406590 website: www.ccuttest.com)

This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen CCUT Quality Technology Co., Ltd.

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Test Report Basic Information

ARTIKA FOR LIVING INC Applicant.....

1756 50th avenue, Lachine, Qc, CanadaH8T 2V5 Address of Applicant....:

ZHONGSHAN C5 LIGHTING CO LTD Manufacturer....:

1# Henglong Road, Tongyi Industrial Area, Cao San, Guzhen, Zhongshan,

Address of Manufacturer.....: Guangdong, China. Z.P 528421

Empress flushmount Product Name....:

Brand Name.....

Main Model..... 12FM-EMC

12FM-EMC-XXXXXX Series Models.....

FCC Part 15 Subpart B

Test Standard...... ANSI C63.4-2014

Date of Test: 2024-05-22 to 2024-05-24

Test Result..... PASS

Reviewed By Lieber Ougang ((Choco Qiu)

(Lieber Ouyang)

Authorized Signatory..... (Lahm Peng)

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Revision	Issue Date	Description	Revised By
V1.0	2024-06-20	Initial Release	Lahm Peng

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1. General Information

1.1 Product Information

Product Name:	Empress flushmount
Trade Name:	-
Main Model:	12FM-EMC
Series Models:	12FM-EMC-XXXXXX
Class of Equipment:	☐ Class A ☐ Class B
Highest Internal Frequency:	<108MHz
Rated Voltage:	AC 120V/60Hz 20W
N . 4 ml l	

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Note 1: The test data is gathered from a production sample, provided by the manufacturer.

Note 2: The color of appearance and model name of series models listed are different from the main model, but the circuit and the electronic construction are the same, declared by the manufacturer. "XXXXXX" can be A to Z and/or 0 to 9 and/or blank (commercial code).

1.2 Test Setup Information

List of Test Mo	List of Test Modes								
Test Mode	De	escription		Remark					
TM1	1	Working		AC 120V/6	OHz				
TM2		-		-					
TM3		-		-					
TM4		-		-					
List and Details of Auxiliary Cable									
Descrip	ption	Length (cm)		Shielded/Unshielded	With/Without Ferrite				
-		-							
-		-		-	-				
-		-							
List and Detai	ls of Auxiliary	y Equipment							
Descrij	ption	Manufacture	r	Model	Serial Number				
		-		-	-				
				-	-				

The equipment under test (EUT) was configured to measure its highest possible emission and immunity level. The test modes were adapted according to the operation manual for use.

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1.3 Compliance Standards

Compliance Standards					
ECC Don't 15 Cubnowt D	FEDERAL COMMUNICATIONS COMMISSION, RADIO FREQUENCY DEVICES,				
FCC Part 15 Subpart B	Unintentional Radiators				
All measurements contained in this report were conducted with all above standards					
According to standards for	test methodology				
ECC Dout 15 Culmont D	FEDERAL COMMUNICATIONS COMMISSION, RADIO FREQUENCY DEVICES,				
FCC Part 15 Subpart B	Unintentional Radiators				
	American National Standard for Methods of Measurement of Radio-Noise Emissions				
ANSI C63.4-2014	from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40				
	GHz.				
Maintenance of compliance is	the responsibility of the manufacturer or applicant. Any modification of the product, which				
result is lowering the emission, should be checked to ensure compliance has been maintained.					

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1.4 Test Facilities

Shenzhen CCUT Quality Technology Co., Ltd.						
1F, Building 35, Changxing Technology Industrial Park, Yutang Street,						
Guangming District, Shenzhen, Guangdong, China						
L18863						
6893.01						
583813						
CN0164						

All measurement facilities used to collect the measurement data are located at 1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China.

1.5 Measurement Uncertainty

Test Item	Conditions	Uncertainty		
Conducted Disturbance	9kHz~30MHz	±1.64 dB		
Radiated Disturbance	$30 \mathrm{MHz} \sim 1 \mathrm{GHz}$	±3.32 dB		
Radiated Disturbance	1GHz ∼ 18GHz	±3.50 dB		

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1.6 List of Test and Measurement Instruments

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date						
	Conducted Emissions										
AMN ROHDE&SCHWARZ ENV216 101097 2023-10-21 2024-10											
EMI Test Receiver	ROHDE&SCHWARZ	ESPI	100242	2023-07-31	2024-07-30						
EMI Test Software	FARA	EZ-EMC	EMEC-3A1+	N/A	N/A						
		Radiated Emission	ons								
EMI Test Receiver ROHDE&SCHWARZ ESPI 100154 2023-07-31 2024-07											
Spectrum Analyzer	KEYSIGHT	N9020A	MY48030972	2023-07-31	2024-07-30						
Amplifier	Amplifier SCHWARZBECK		00251	2023-07-31	2024-07-30						
Amplifier	HUABO	YXL0518-2.5-45		2023-07-31	2024-07-30						
Loop Antenna	DAZE	ZN30900C	21104	2023-08-07	2024-08-06						
Broadband Antenna	SCHWARZBECK	VULB 9168	01320	2023-08-07	2024-08-06						
Horn Antenna	SCHWARZBECK	BBHA 9120D	02553	2023-08-07	2024-08-06						
EMI Test Software	FARA	EZ-EMC	FA-03A2 RE+	N/A	N/A						

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2. Summary of Test Results

FCC Rule	Description of Test Item	Result
FCC Part 15.107	Conducted Emissions	Passed
FCC Part 15.109	Radiated Emissions	Passed

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Passed: The EUT complies with the essential requirements in the standard

Failed: The EUT does not comply with the essential requirements in the standard

N/A: Not applicable

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3. Conducted Emissions

3.1 Standard and Limit

According to the rule FCC Part 15.107, Conducted limit, the limit for a class A and class B device as below:

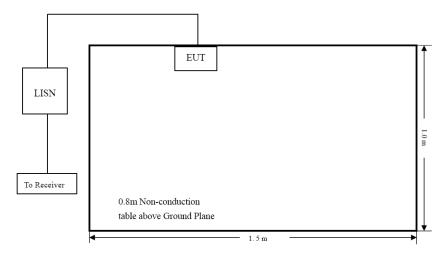
Frequency of Emission	Class A	(dBuV)	Class B (dBuV)			
(MHz)	Quasi-peak	Average	Quasi-peak	Average		
0.15-0.5	79	66	66 to 56	56 to 46		
0.5-5	73	60	56	46		
5-30	73	60	60	50		

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Note 1: Decreases with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz

3.2 Test Procedure

Test is conducting under the description of ANSI C63.4-2014 American National Standard for Methods of Measurement of Radio Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.



Test Setup Block Diagram

3.3 Test Data and Results

Based on all tested data, the EUT complied with the FCC Part 15.107 standard limit for a Class B device, and with the worst case as below:

Remark: Level = Reading + Factor, Margin = Level - Limit

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Note 2: The lower limit applies at the band edges

Test P	lots and Data (of Conduct	ed Emissi	ons						
Tested	sted Model: 12FM-EMC									
	l Mode:	TM1								
	oltage:	AC 1	C 120V/60Hz							
	ower Line:		leutral							
Remar										
Kemai										
90.0	dBuV									
80										
70										
60									FCC Part15 CE-Class B_QF	,
-	M	3	++++				+		FCC Park15 CE-Class B_AV	,_
50	W. Carlotte	CAMPHA.	7	9						1,1
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20				La	w you when you and had not	4		- NY	The state of the s	peak AVG
10						The Control of the Co	- Commence	a.m.	The state of the s	
0										
-10 0.15	50	0.50			(MHz)		5.0	00		30.000
-										
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark	
1 *	0.2130	50.42	9.62	60.04	63.09	-3.05	QP	Р		
2	0.2130	27.55	9.62	37.17	53.09	-15.92	AVG	Р		
3	0.4065	39.65	9.94	49.59	57.72	-8.13	QP	P		
4	0.4065	18.92	9.94	28.86	47.72	-18.86	AVG	Р		
5	0.4965	38.63	9.95	48.58	56.06	-7.48	QP	P		
6	0.4965	16.24	9.95	26.19	46.06	-19.87	AVG	Р		
7	0.8655	36.80	9.60	46.40	56.00	-9.60	QP AVC	P		
8	0.8655	12.09	9.60	21.69	46.00	-24.31	AVG			
9	1.3829	34.30	10.02	44.32	56.00 46.00	-11.68 -24.87	QP AVG	P		
11	1.3829 23.7210	11.11 33.14	10.02 10.43	21.13 43.57	60.00	-16.43	QP	Р		——
12	23.7210	29.49	10.43	39.92	50.00	-10.43	AVG	Р		

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Test l	Plots and Data	of Conduct	ted Emissi	ons						
Teste	d Model:	12FN	и-емс							
Teste	ed Mode:	TM1	M1							
Test \	Voltage:	AC 1	C 120V/60Hz							
Test l	Power Line:	Live	ive							
Rema	ark:									
90.0	dBuV									
80										
70										
60	3								FCC Part15 CE-C	lass B_QP
50		5 5	B 7	9					FCC Part15 CE-C	lass B_AVe
40	\$	MM 44 3		Brail C	Monday.					11 12
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10					- and	and the second				peak
0							- Sandy-	Mary Mary		~√/h√ ¹¹]AVG
-10 0.	150	0.50			(MHz)		5.0	00		30.000
	Frequency	Reading	Factor	Level	Limit	Margin				
No.	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	Detector	P/F	Remark	
1 '		51.04	8.97	60.01	63.83	-3.82	QP	Р		
2	0.1949	27.68	8.97	36.65	53.83	-17.18	AVG	Р		
3	0.2625	46.29	9.60	55.89	61.35	-5.46	QP	Р		
5	0.2625 0.5055	24.52 40.02	9.60 9.93	34.12 49.95	51.35 56.00	-17.23 -6.05	AVG QP	P P		
6	0.5055	18.52	9.93	28.45	46.00	-0.05	AVG	Р		
7	0.8250	35.81	9.87	45.68	56.00	-10.32	QP	P		
8	0.8250	13.93	9.87	23.80	46.00	-22.20	AVG	P		
9	1.1849	35.13	10.02	45.15	56.00	-10.85	QP	P		
10	_	11.60	10.02	21.62	46.00	-24.38	AVG	P		
11	23.6175	32.13	10.36	42.49	60.00	-17.51	QP	Р		
12		28.08	10.36	38.44	50.00	-11.56	AVG	Р		

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4. Radiated Disturbance

4.1 Standard and Limit

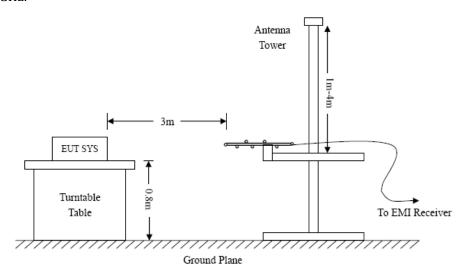
According to the rule FCC Part 15.109, Radiated emission limit for a class A and class B device as below:

Eroquency of Emission (MHz)	Class A (3m)	Class B (3m)				
Frequency of Emission (MHz)	Quasi-peak (dBuV/m)	Quasi-peak (dBuV/m)				
30-88	50	40				
88-216	54.0	43.5				
216-960	57.0	46				
Above 960	60	54				
Note: The more stringent limit app	lies at transition frequencies.					

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4.2 Test Procedure

Test is conducting under the description of ANSI C63.4-2014 American National Standard for Methods of Measurement of Radio Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.



Test Setup Block Diagram

4.3 Test Data and Results

Based on all tested data, the EUT complied with the FCC Part 15.109 standard limit for a Class B device, and with the worst case as below:

Remark: Level = Reading + Factor, Margin = Level - Limit

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Гest Pl	ots and l	Data o	of Radia	ated	Emi	ssio	ns								
Гested	Model:			1	12FM-EMC										
Гested	Mode:			7	TM1										
Гest Vo	oltage:			A	AC 120V/60Hz										
Гest Aı	ntenna P	olariz	zation:	ŀ	Horiz	zont	al								
Remar	k:														
80.0	dBuV/n	n													
70															
60															
										FC	C Part15 F	RE-Class B ₋	_30-10	00MHz	
50									<u> </u>	Ma	ırgin -6 dB				
40						┵									
30						_							J. me Market	5 North Manhie	
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- 1	.000		60.	.00				(MHz)		30	0.00			1000.	000
No.	Freque (MH:		Readin (dBuV		Fac (dB/		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark	
1	40.41	72	26.29	+	-8.0	06	18.23	40.00	-21.77	QP	100	360	Р		_
2	71.33	800	27.40		-11.	25	16.15	40.00	-23.85	QP	100	360	Р		_
3	160.90	089	26.84	ı	-9.0)3	17.81	43.50	-25.69	QP	100	360	Р		
4	410.3	825	26.51		-5.7	75	20.76	46.00	-25.24	QP	100	360	Р		
5	787.8		30.78	-	1.9		32.75	46.00	-13.25	QP	100	360	Р		
6 *	890.72	278	33.50		3.4	0	36.90	46.00	-9.10	QP	100	360	Р		

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Test l	Plo	ts and	Data	of Rac	liate	d En	nissio	ons							
Teste	ed I	Model:	:			12FM-EMC									
Teste	ed I	Mode:				TM1									
Test \	Vol	tage:				AC 120V/60Hz									
Test A	An	tenna	Polari	zation	1:	Vert	ical								
Rema	ark	::													
80.0		dBuV/n	n												
70															
60											FC	C Part15 I	RE-Class B	30-1	000MHz
50											M.	argin -6 dB			
40										+-					36
30															Mary Mary Mary
20	ny.	1 Lilliumidi	ding proper	whoweles	2 W.Majii	Medha		nave proposition for the constitution of the	MARAHAMANANANANANANANANANANANANANANANANANAN	de contration	on be before the	Annewarter	of the state of th	Marin I	
10							A-Parties Au	in pre-							
0.0															
30	0.00	10		6	0.00				(MHz)		30	0.00			1000.00
No.		Frequ (MI		Read (dBt			ctor 3/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1		33.9		27.			.76	18.68	40.00	-21.32	QP	100	23	Р	
2	4	68.3		26.).75	15.78	40.00	-24.22	QP	100	56	Р	
3	4	174.4		27.			0.08	17.03	43.50	-26.47	QP	100	94	P	
4	_	782.3		28.			.81	30.75	46.00	-15.25	QP	100	102	P	
5 '	*	869. ²		34.			.55 .64	37.01 36.48	46.00 46.00	-8.99 -9.52	QP QP	100	302 356	P	
		550.0		02.	-		.J.,	1 00.40	10.00	0.02	_ <	1 .00	1 000	<u>' '</u>	<u> </u>

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