

NSAI

ECE TYPE-APPROVAL CERTIFICATE

E24

Concerning:²

Approval granted
~~Approval extended~~
~~Approval refused~~
~~Approval withdrawn~~
~~Production definitively discontinued~~

Of a type of ~~vehicle~~/component/~~separate technical unit~~² with regard to Regulation No. 10.

Of a type of electrical/electronic sub-assembly² with regard to Regulation No.10.

Approval No: **E24*10R06/02*5568*00**

Reason for extension:

-N/A

1. Make (trade name of manufacturer):

EcoFlow Inc

2. Type and general commercial description:

EF-FC-301-1
EcoFlow Alternator charger

3. Means of identification of type, if marked on the ~~vehicle~~/
component/~~separate technical unit~~²:

Letters and digits

3.1 Location of that marking:

Rating plate affixed on top of the device

4. Category of vehicle:

N/A

5. Name and address of manufacturer:

EcoFlow Inc.
1st Floor, Building 1, Plant E, Jiehe
Industrial City, Shuitian Community,
Shiyan Street, Bao'an District, Shenzhen
City, Guangdong Province, P.R. China

6. In the case of components and separate technical units,
location and method of affixing of the approval mark:

Rating plate affixed on top of the device

7. Address(es) of assembly plant(s):

EcoFlow Inc.
1st Floor, Building 1, Plant E, Jiehe
Industrial City, Shuitian Community,
Shiyan Street, Bao'an District, Shenzhen
City, Guangdong Province, P.R. China



Approval No: E24*10R06/02*5568*00

8. Additional information (where applicable): *See appendix below*
9. Technical service responsible for carrying out the tests: *TÜV SÜD Auto Service GmbH,
Westendstraße 199,
D-80686 München*
10. Date of test report: *20.05.2024*
11. Number of test report: *24-01543-CX-SHA-00*
12. Remarks (if any): *See Appendix below*
13. Place: *Dublin*
14. Date: *4th June, 2024*
15. Signature: 
16. The index to the information package lodged with the approval authority, which may be obtained on Request, is attached.



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1. Distinguishing number of the country which issued/extended/refused or withdrawn approval.
(see Regulation, provisions on approval).
2. Strike out what does not apply.

Appendix

To type-approval communication concerning the type approval of an electrical/electronic sub-assembly under Regulation No.10.

1. Additional information
 - 1.1. Electrical system rated voltage: *Charge Mode 12/24V DC pos./neg. ground
Reverse Charge Mode 40-60V DC pos./neg. ground*
 - 1.2. This ESA can be used on any vehicle type with the following restrictions: *See manufacturer's specifications.*
 - 1.2.1 Installation conditions, if any: *See manufacturer's specifications.*
 - 1.3. This ESA can only be used on the following vehicle types: *N/A*
 - 1.3.1 Installation conditions, if any: *N/A*
 - 1.4. The specific test method(s) used and the frequency ranges covered to determine immunity were: *Bulk Current Injection Method:
Frequency: (20 – 400 MHz)
Absorber Chamber Test:
Frequency: (400 – 2000 MHz)*
 - 1.5. Laboratory accredited to ISO 17025 and recognized by the Approval Authority responsible for carrying out the tests: *TÜV SÜD Auto Service GmbH*
2. Remarks: *N/A*

Appendix to type-approval communication concerning the type approval of a vehicle under Regulation No.10.

1. Additional information
2. Electrical system rated voltage: *N/A*
3. Type of bodywork: *N/A*
4. List of electronic systems installed in the tested vehicle(s) not limited to the items in the information document: *N/A*
 - 4.1. Vehicle equipped with 24 GHz short-range radar equipment (yes/no/optional)²: *N/A*
5. Laboratory accredited to ISO 17025 and recognized by the Approval Authority responsible for carrying out the tests: *N/A*
6. Remarks: *N/A*



Approval No: **E24*10R06/02*5568*00**

Index to the Information Package

Date of issue:	04.06.2024
Date of latest amendment:	N/A
Reason for extension/revision:	N/A
1. Additional conditions, and advisory notes on legal alternatives.	
2. Test report(s)	
- numbers(s):	24-01543-CX-SHA-00
- date of issue:	20.05.2024
- date of latest amendment:	N/A
3. Information document	
- number(s):	EF-FC-301-1-00
- date of issue:	26.03.2024
- date of latest amendment:	N/A
Documentation:	69 pages



Approval No: E24*10R06/02*5568*00

Appendix: **Additional conditions, and advisory notes on legal alternatives**

A: Additional conditions:

1. The attached technical report, with any of its attachments, forms part of this Type Approval certificate.
2. Each device from series production shall be to the measurements specified in the attached drawings, and shall be manufactured only from the materials specified in the Approval documents.
3. Changes in the type are permitted only with the explicit permission of NSAI. Breaches of this requirement will lead to a withdrawal of the Type Approval, and in addition may be subject to criminal prosecution.
4. At regular intervals, any tests or associated checks prescribed by the applicable legislation to verify continued conformity with the approved type shall be carried out. The manufacturer shall demonstrate compliance with this by submitting to NSAI evidence of adequate arrangements and documented control plans for each type approved.
5. Any set of samples or test pieces showing evidence of non-conformity shall give rise to further sampling and testing and all steps shall be taken to restore conformity of production.
6. This Type Approval will expire when it is surrendered by the holder, or withdrawn by NSAI, or when the approved type no longer conforms to legal requirements. The recall of the Type Approval can be issued by NSAI when the conditions required for the issuing or continuation of the Type Approval are no longer current, or when the Approval holder is in breach of the duties attached to the Type Approval, or when it is established that the approved type no longer meets the requirements of traffic safety.
7. Changes in the company name, address or manufacturing site, as well as in any of the sales or other agents specified in the issuing of the approval must immediately be notified to NSAI.
8. The duties imposed by the issuing of this certificate are not transferable. The legal protection of third parties is not affected by this certificate.
9. When the manufacture or sale of the system, component or separate technical unit has not been started within one year of the date of issue of this certificate, then NSAI is to be informed. This requirement also applies when the manufacture or sale has been halted for more than one year, or when it ought to have been halted for more than one year. The initial commencement of manufacture or sale, or the resumption of manufacture or sale, shall then be notified to NSAI within one month of commencement or resumption.

B: Legal Options:

Any objection to the requirements set out in this certificate shall be made within one month of the date of issue. The objection shall be made, in writing, to NSAI in Dublin.



Test report No.: 24-01543-CX-SHA-00
Manufacturer: EcoFlow Inc.
Type: EF-FC-301-1

Test Report

No.: 24-01543-CX-SHA-00

Test of a type of component
with regard to **UN/ECE Regulation No. 10**

including all amendments up to
supplement 2 to the 06 series

Approval subject:
Electromagnetic Compatibility

Approval status	
☒	Granting of a type approval
☐	Extension/correction to type approval no. : ---

Test report No.: 24-01543-CX-SHA-00
Manufacturer: EcoFlow Inc.
Type: EF-FC-301-1

I. General

Make (trade name of manufacturer) : EcoFlow Inc.

Type : EF-FC-301-1

Variant(s) : N/A

Commercial description(s) : EcoFlow Alternator charger

Name and address of manufacturer : EcoFlow Inc.
1st Floor, Building 1, Plant E, Jiehe Industrial City,
Shuitian Community, Shiyan Street, Bao'an
District, Shenzhen City, Guangdong Province,
P.R. China

Name and address of manufacturer's representative (if applicable) : N/A

Address(es) of assembly plant(s) : EcoFlow Inc.
1st Floor, Building 1, Plant E, Jiehe Industrial City,
Shuitian Community, Shiyan Street, Bao'an
District, Shenzhen City, Guangdong Province,
P.R. China

Location and method of affixing of the approval mark : Rating plate affixed on top of the device

II. Test results

Refer to the Annex II

III. Enclosures

Annex I Reason of Extension

Annex II Test results

Information folder No. EF-FC-301-1-00 dated 26.03.2024 (dd.mm.yyyy)

Test report No.: 24-01543-CX-SHA-00
Manufacturer: EcoFlow Inc.
Type: EF-FC-301-1

IV. Statement of conformity

The mentioned information folder and the type described therein are in accordance with the test basis mentioned above. Sampling plan or method result from the requirements of the test basis. The worst-case configuration was selected in accordance with process description "Requirements for Test Reports (AS-PB-T-02)". Valid decision rule in accordance with ILAC G8:2019, 4.2.1: in question of meeting the limits the measurement uncertainty was ignored.

The manufacturer is responsible for the information (III.) and the test specimens provided by him. The test results relate only to the test specimens as received and mentioned (II.). The test specimens are representative for the type described (III.).

The test report may be reproduced and published in full and by the client only. It can be reproduced partially with the written permission of the test laboratory only.

TÜV SÜD Auto Service GmbH is designated as Technical Service by:

Approval authority	Country	Registration number
Kraftfahrt-Bundesamt (KBA)	Germany	KBA-P 00100-10
Vehicle Certification Agency (VCA)	United Kingdom	VCA-TS-006
Approval Authority of the Netherlands (RDW)	The Netherlands	RDWT-082-xx
National Standards Authority of Ireland (NSAI)	Ireland	Technical Service Number: 49
Société Nationale de Certification et d'Homologation s.a. (SNCH)	Luxembourg	13/B(g)
Swedish Transport Agency (STA)	Sweden	TT 0024



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München, 20.05.2024 (dd.mm.yyyy)

Pan Lu



Test report No.: 24-01543-CX-SHA-00
Manufacturer: EcoFlow Inc.
Type: EF-FC-301-1

Annex I Reason of Extension

Correction of : ---

Modification of : ---

Addition of : ---

Deletion of : ---

Annex II Test results

1. Description of the test object

1.1. Representative ESA : EF-FC-301-1

1.2. Tested variant (if any) : N/A

2. Test conditions

2.1. Test equipment :

No.	Name Test Apparatus	Model	Serial No.	Expiry Date
1	EMI Receiver	ESW8	101153	2024-09-08
2	preamplifier	BBV 9745	#144	2024-06-09
3	Biconical antenna	BBA9106+VHBB 9124	01258	2025-01-17
4	Log-periodic antenna	VUSLP 9111B	327	2024-11-18
5	LISN	NNBM 8124- 200N	05400	2024-11-17
6	LISN	NNBM 8124- 200N	05396	2024-11-17
7	The host of immunity test system	NSG 4070C	52857	2024-12-08
8	Power amplifier	NTWPA- 4k04200E	18129094	2024-11-10
9	Current injection clamp	F-120-8	191168	2024-12-08
10	LISN	NNBM 8124- 200N	05397	2024-11-17
11	Signal generator	N5171B	MY57281462	2024-12-08
12	RF switch	KRE-4102-ESRJ	031990-0012	2024-12-08
13	Power amplifier	NTWPA- 008101000E	18123291	2024-08-01
14	Power amplifier	NTWPA-1060200	19023038	2024-11-13
15	Power meter	E4417A	MY58380004	2024-12-08
16	Logarithmic periodic antenna	STLP 9128 C- 7/16	#3036	2025-01-20
17	Horn antenna	BBHA 9120J	00187	2024-12-23
18	LISN	NNBM 8124- 200N	05394	2024-11-17
19	LISN	NNBM 8124- 200N	05395	2024-11-17
20	Field strength probe	RSS2010S-SET	18I00024SN027	2024-08-13
21	Miniature vehicle immunity simulator	UCS 200N50	P1843223867	2025-01-04
22	Ultra-small load- shedding simulator	LD 200N	P1828221751	2025-01-04

Test report No.: 24-01543-CX-SHA-00
 Manufacturer: EcoFlow Inc.
 Type: EF-FC-301-1



23	Bipolar voltage drop simulator	VDS 200Q50--400	P1845224241	2025-01-04
24	Emission measurement electronic switch	BS200N100	P1849225010	2024-12-08
25	oscilloscope	MDO3104	C052519	2024-10-13
26	DC power supply	TPR-6030D	190500367	2024-11-17

- 2.2. Ambient condition : In accordance to the standard above
- 2.3. Carrying out of the test
- 2.3.1. Broadband electromagnetic interference generated by ESA
- 2.3.1.1. Method of measurement : Measured by the method described in Annex 7 of ECE-R10.
- 2.3.1.2. Results : The measured values, expressed in dB μ V/m, are below the reference limits. The test was passed.
- 2.3.2. Narrowband electromagnetic interference generated by ESA
- 2.3.2.1. Method of measurement : Measured by the method described in Annex 8 of ECE-R10.
- 2.3.2.2. Results : The measured values, expressed in dB μ V/m, are below the reference limits. The test was passed.
- 2.3.3. Immunity of ESA to electromagnetic radiation
- 2.3.3.1. Method of measurement : Measured by bulk current injection (20 MHz - 400 MHz) and in the anechoic chamber (400 MHz – 2 GHz) as described in annex 9 of ECE-Regulation No. 10
- 2.3.3.2. Performance criteria : No degradation of function by testing with 60 mA (bulk current injection) and 30 V/m (anechoic chamber).
- 2.3.3.3. Results : The ESA has not exhibited any malfunction. The claimed functional state was fulfilled during the test. The test was passed
- 2.3.4. Immunity of ESA to conducted transient interferences
- 2.3.4.1. Method of measurement : Measured as described in Annex 10 of ECE-R10.
- 2.3.4.2. Results : The ESA has not exhibited any unacceptable malfunction. The claimed functional state was fulfilled during the test. The test was passed.
- 2.3.5. Conducted transient interferences generated by ESA



Test report No.: 24-01543-CX-SHA-00
Manufacturer: EcoFlow Inc.
Type: EF-FC-301-1

2.3.5.1. Method of measurement : Measured as described in Annex 10 of ECE-R10.

2.3.5.2. Results : The measured values are below the reference limits. The test was passed.

3. Test results

The results of the tests are attached in the diagrams of the enclosure.

4. Place and date of the test : Guangzhou GRG Metrology & Test Co., Ltd.
27.03.2024 to 26.04.2024 (dd.mm.yyyy)

Test report No.: 24-01543-CX-SHA-00
 Manufacturer: EcoFlow Inc.
 Type: EF-FC-301-1

Annex 2a Measurement diagrams of the radio interference 30 MHz - 1 GHz

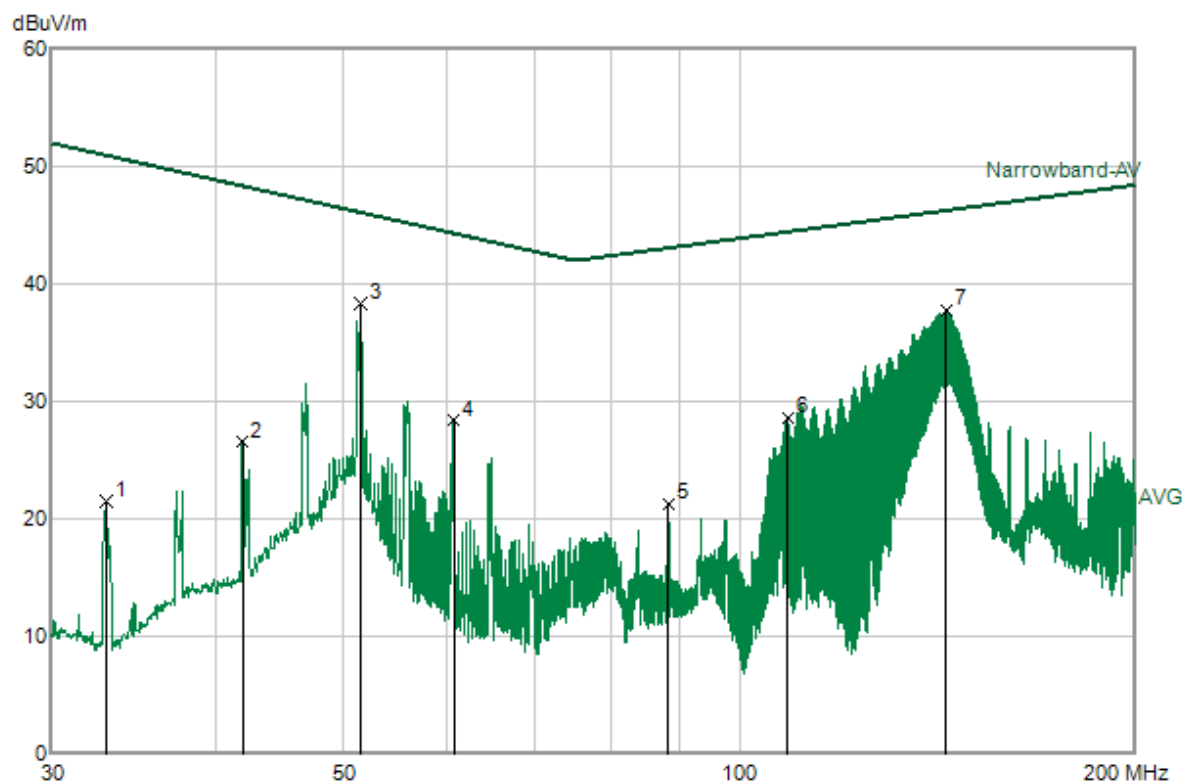
DUT Model: EF-FC-301-1

Test Voltage: 13.5V

Test Mode: Charge Mode

Test Result: Pass

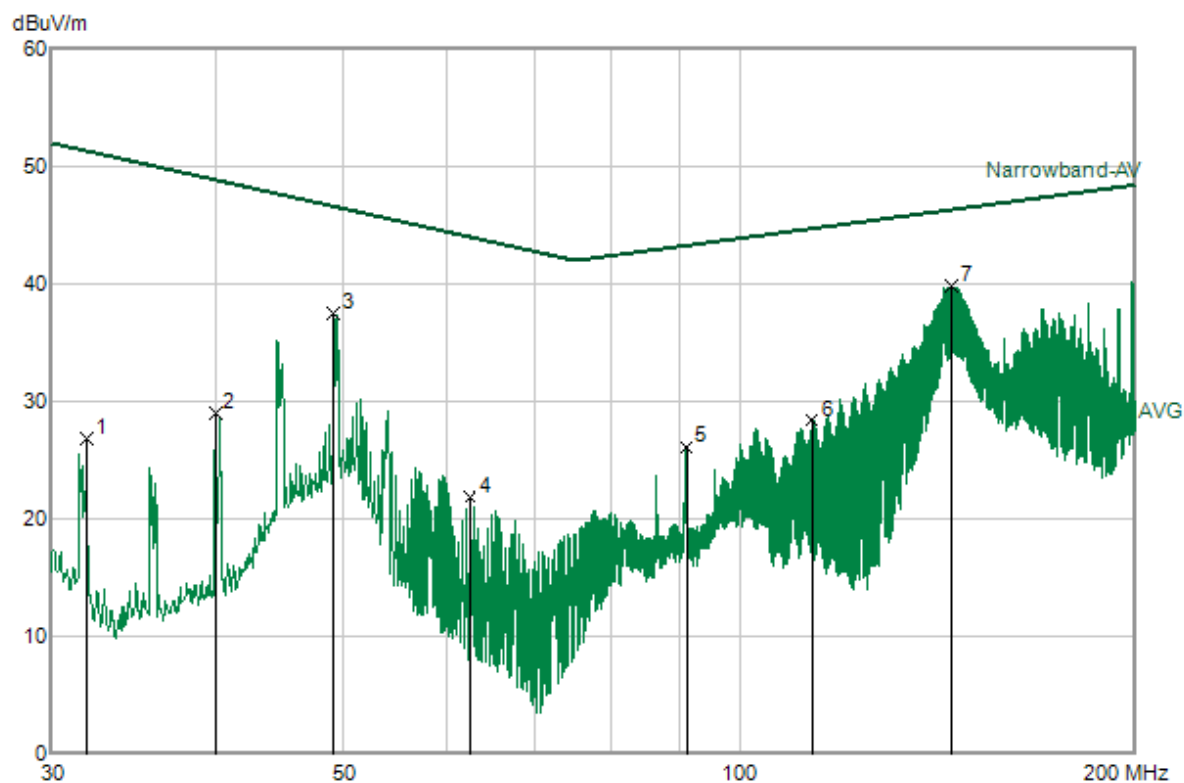
30 to 200MHz – Horizontal Narrowband:



No.	Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	33	21.55	50.96	29.41	AVG
2	41.9	26.57	48.35	21.78	AVG
3	51.6	38.35	46.08	7.73	AVG
4	60.65	28.4	44.32	15.92	AVG
5	88.35	21.31	43.08	21.77	AVG
6	108.8	28.6	44.44	15.84	AVG
7	143.7	37.76	46.27	8.51	AVG

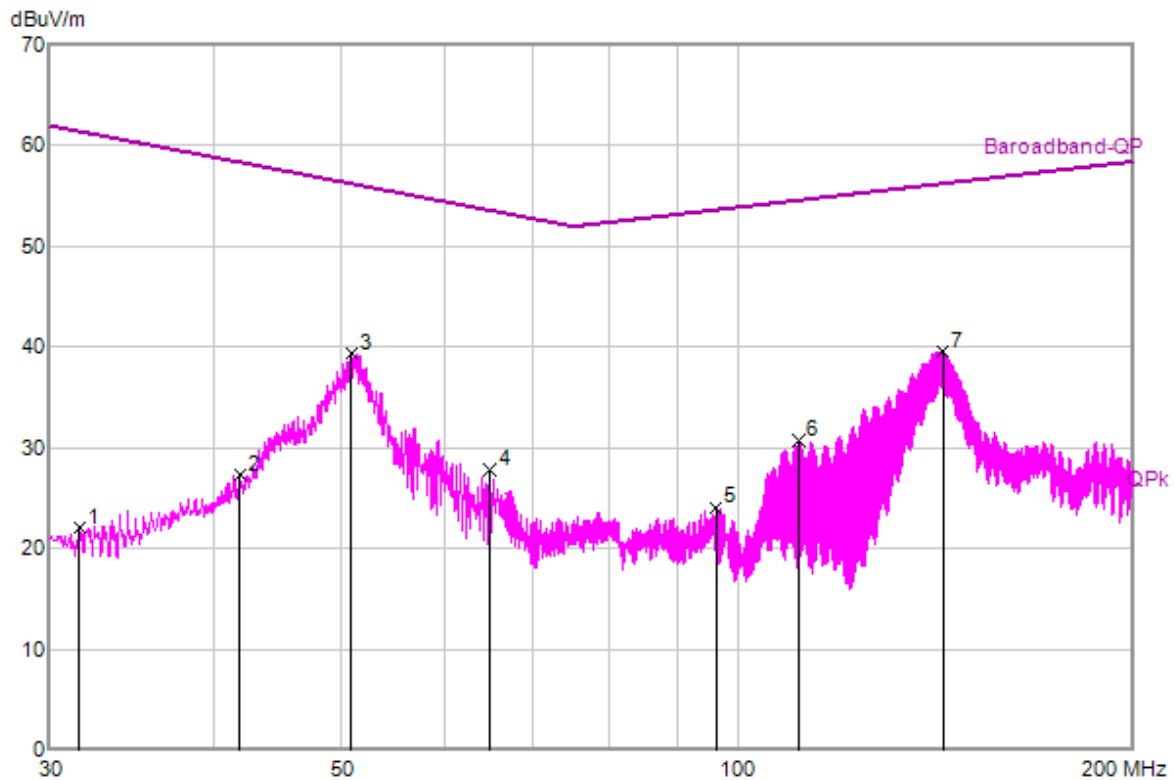
Test report No.: 24-01543-CX-SHA-00
 Manufacturer: EcoFlow Inc.
 Type: EF-FC-301-1

30 to 200MHz – Vertical Narrowband:



No.	Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	31.9	26.85	51.33	24.48	AVG
2	39.95	29.03	48.87	19.84	AVG
3	49.15	37.51	46.61	9.1	AVG
4	62.4	21.9	44.01	22.11	AVG
5	91.15	26.15	43.28	17.13	AVG
6	113.6	28.41	44.73	16.32	AVG
7	144.9	39.83	46.33	6.5	AVG

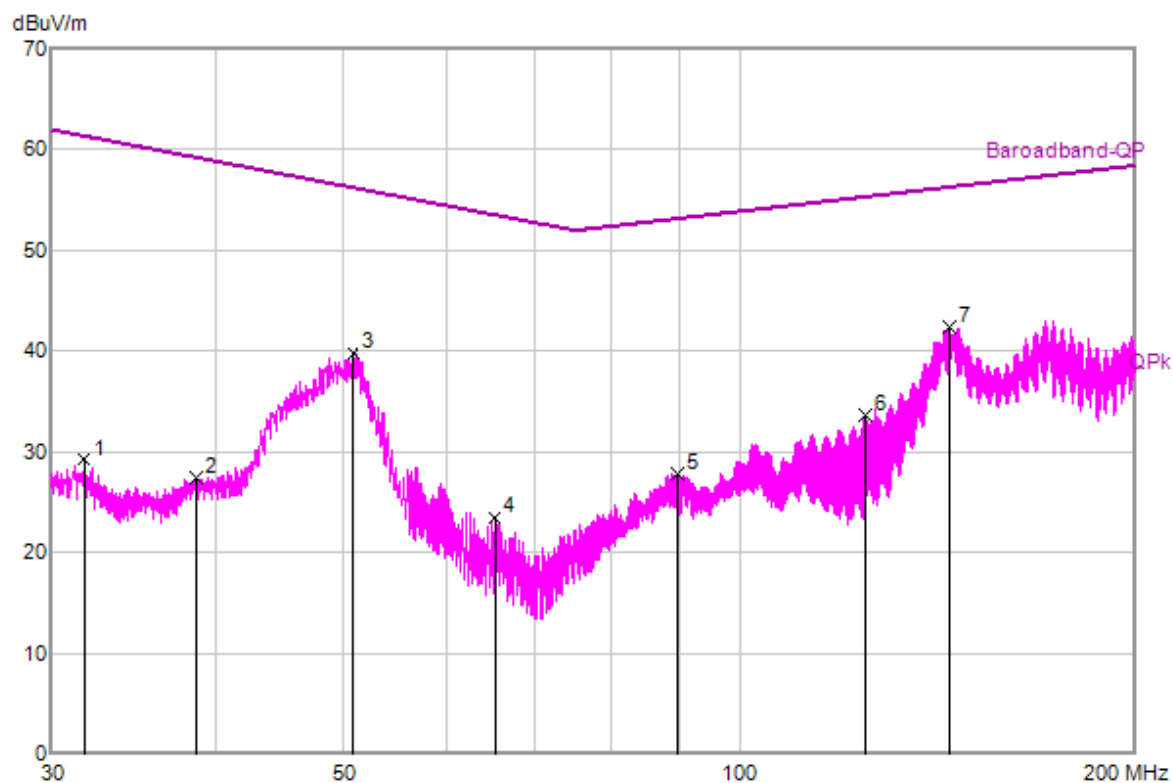
30 to 200MHz – Horizontal Broadband:



No.	Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	31.62	22.06	61.43	39.37	QP
2	41.85	27.29	58.37	31.08	QP
3	50.91	39.31	56.23	16.92	QP
4	64.8	27.76	53.6	25.84	QP
5	96.33	24.05	53.64	29.59	QP
6	111.21	30.72	54.59	23.87	QP
7	143.28	39.53	56.25	16.72	QP

Test report No.: 24-01543-CX-SHA-00
 Manufacturer: EcoFlow Inc.
 Type: EF-FC-301-1

30 to 200MHz – Vertical Broadband:

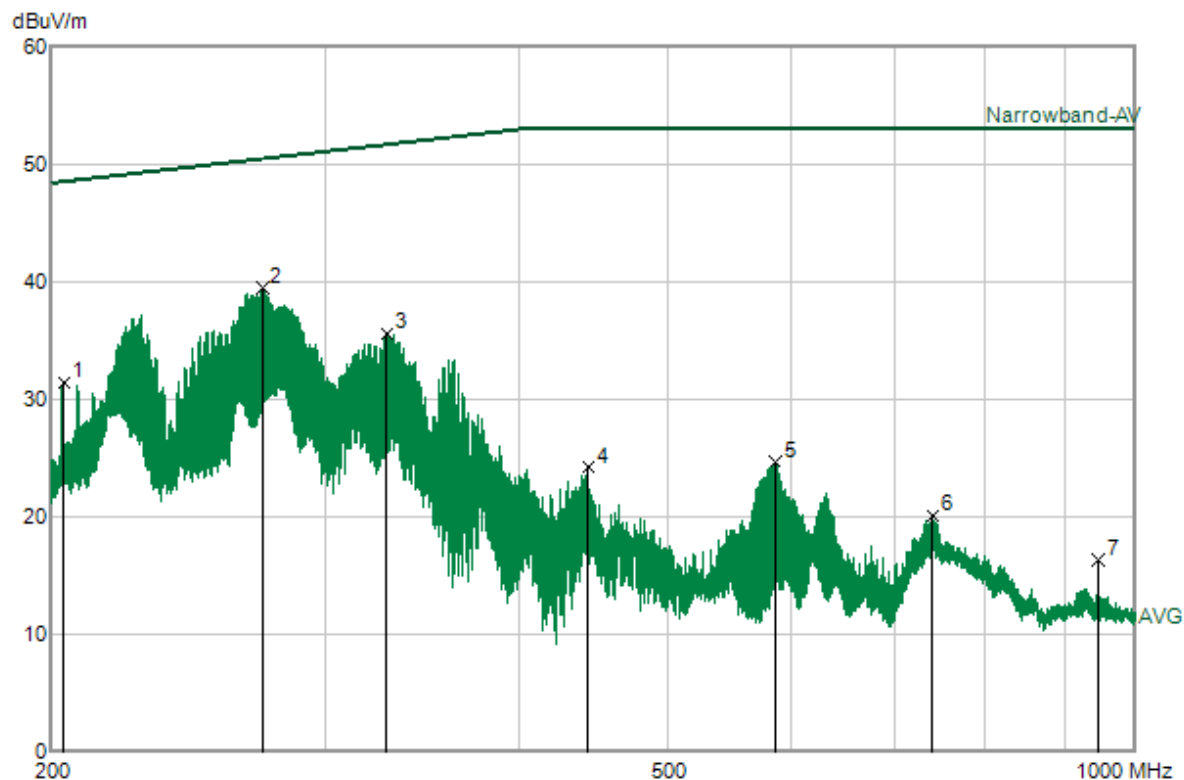


No.	Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	31.77	29.24	61.37	32.13	QP
2	38.64	27.45	59.24	31.79	QP
3	50.91	39.85	56.23	16.38	QP
4	65.19	23.45	53.53	30.08	QP
5	89.7	27.79	53.18	25.39	QP
6	124.8	33.67	55.35	21.68	QP
7	144.51	42.4	56.31	13.91	QP

Test report No.: 24-01543-CX-SHA-00
 Manufacturer: EcoFlow Inc.
 Type: EF-FC-301-1



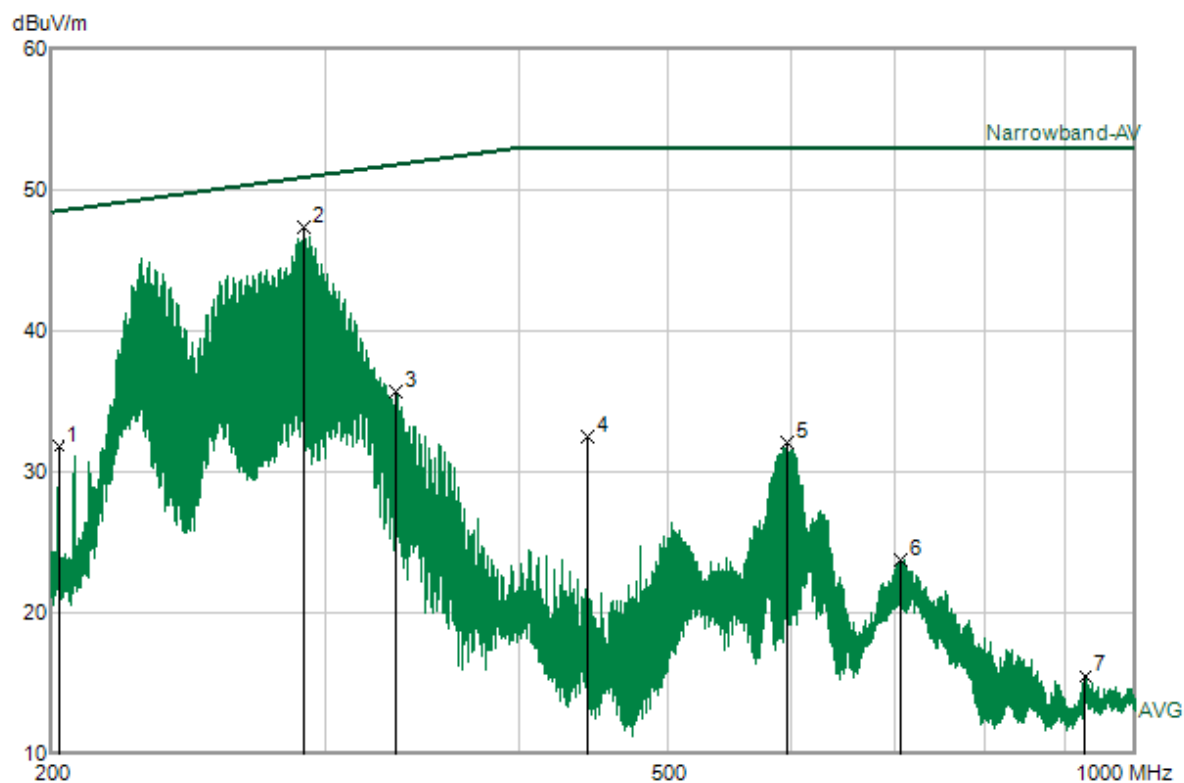
200 to 1000MHz – Horizontal Narrowband:



No.	Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	203.55	31.42	48.56	17.14	AVG
2	273.4	39.49	50.5	11.01	AVG
3	329	35.59	51.72	16.13	AVG
4	443.55	24.23	53	28.77	AVG
5	586.6	24.68	53	28.32	AVG
6	740	20.09	53	32.91	AVG
7	946.6	16.39	53	36.61	AVG

Test report No.: 24-01543-CX-SHA-00
 Manufacturer: EcoFlow Inc.
 Type: EF-FC-301-1

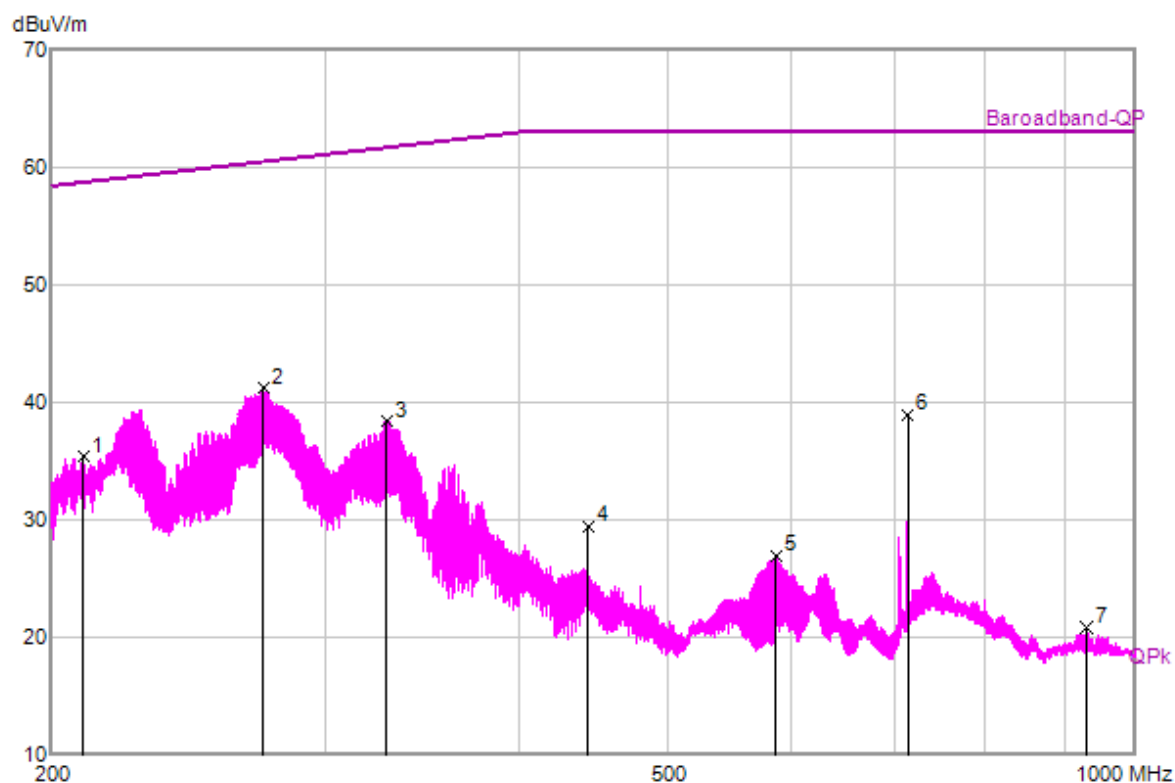
200 to 1000MHz – Vertical Narrowband:



No.	Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	202.15	31.84	48.52	16.68	AVG
2	290.8	47.4	50.9	3.5	AVG
3	333.7	35.71	51.81	16.1	AVG
4	443.55	32.54	53	20.46	AVG
5	596.4	32.06	53	20.94	AVG
6	706.4	23.75	53	29.25	AVG
7	928.3	15.49	53	37.51	AVG

Test report No.: 24-01543-CX-SHA-00
 Manufacturer: EcoFlow Inc.
 Type: EF-FC-301-1

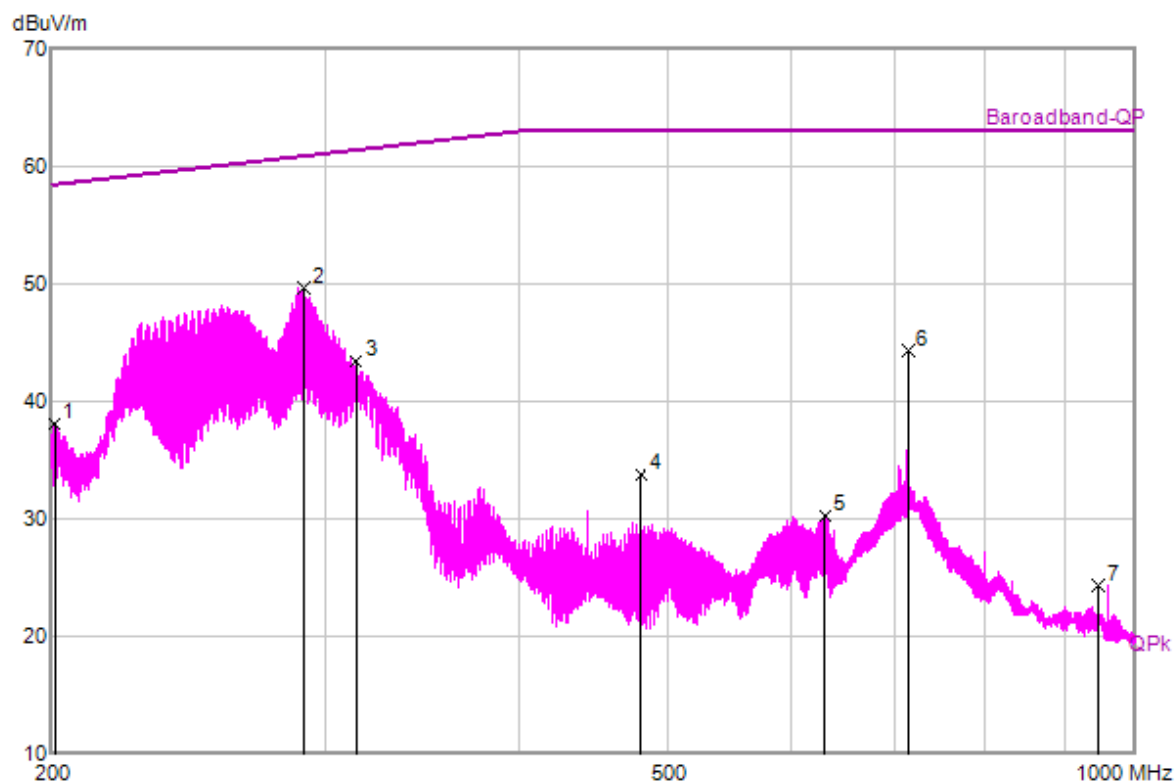
200 to 1000MHz – Horizontal Broadband:



No.	Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	209.69	35.38	58.76	23.38	QP
2	273.8	41.24	60.51	19.27	QP
3	329.03	38.39	61.72	23.33	QP
4	443.54	29.44	63	33.56	QP
5	586.61	26.92	63	36.08	QP
6	713.3	38.94	63	24.06	QP
7	930.62	20.83	63	42.17	QP

Test report No.: 24-01543-CX-SHA-00
 Manufacturer: EcoFlow Inc.
 Type: EF-FC-301-1

200 to 1000MHz – Vertical Broadband:



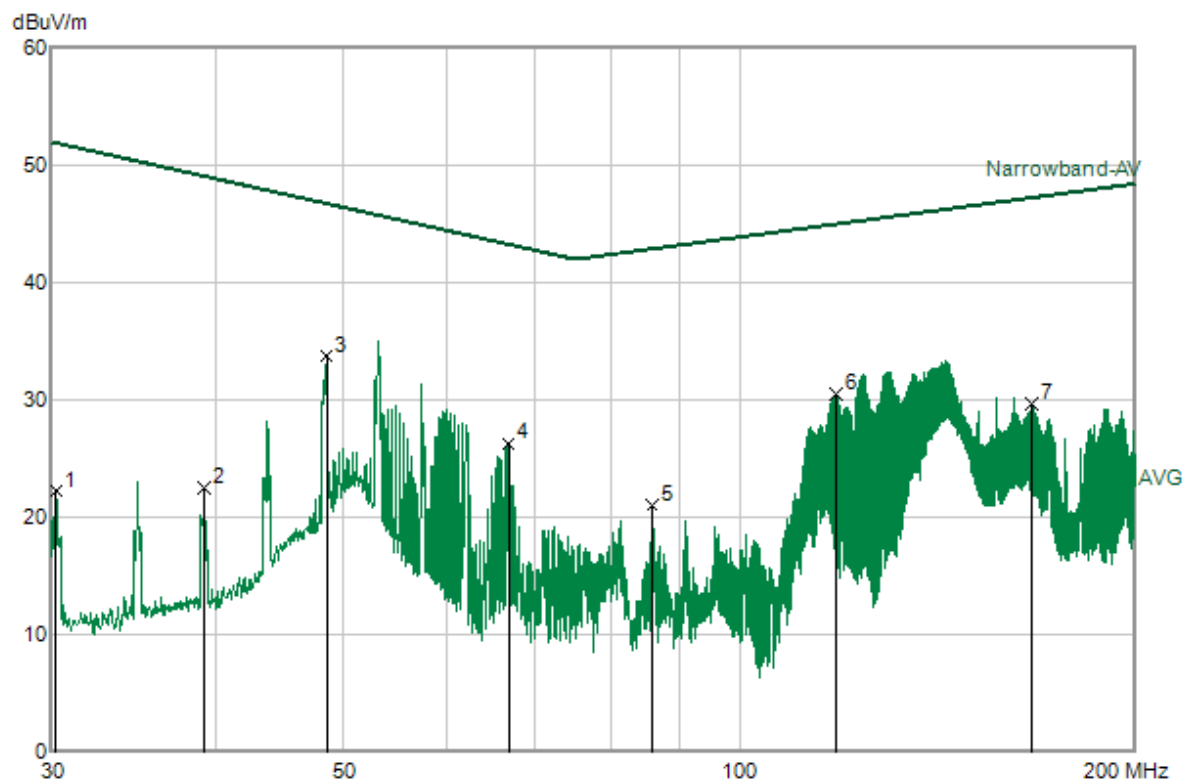
No.	Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	200.9	38.12	58.47	20.35	QP
2	290.81	49.72	60.91	11.19	QP
3	314.42	43.43	61.42	17.99	QP
4	479.99	33.82	63	29.18	QP
5	630.92	30.27	63	32.73	QP
6	713.3	44.32	63	18.68	QP
7	946.61	24.36	63	38.64	QP

Test report No.: 24-01543-CX-SHA-00
 Manufacturer: EcoFlow Inc.
 Type: EF-FC-301-1

DUT Model: EF-FC-301-1
 Test Mode: Charge Mode

Test Voltage: 27V
 Test Result: Pass

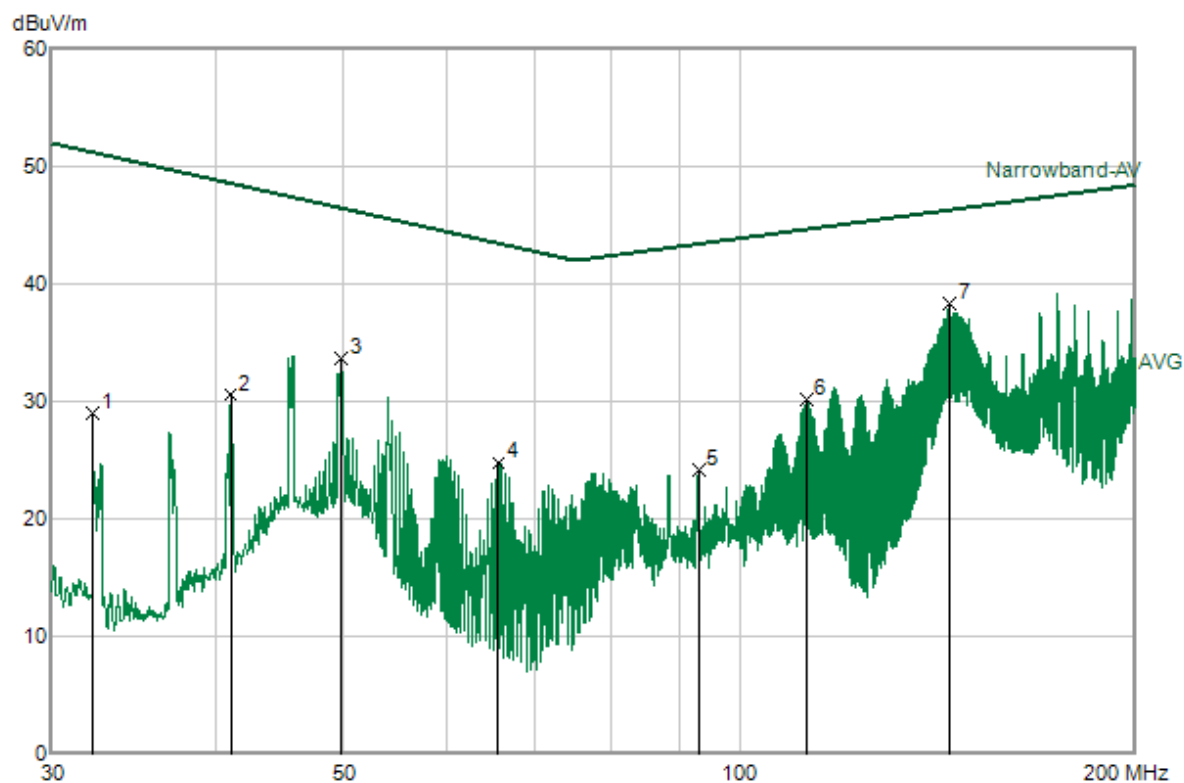
30 to 200MHz – Horizontal Narrowband:



No.	Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.25	22.25	51.91	29.66	AVG
2	39.2	22.49	49.08	26.59	AVG
3	48.55	33.75	46.75	13	AVG
4	66.75	26.33	43.27	16.94	AVG
5	85.95	21.03	42.9	21.87	AVG
6	118.4	30.47	45	14.53	AVG
7	166.8	29.66	47.25	17.59	AVG

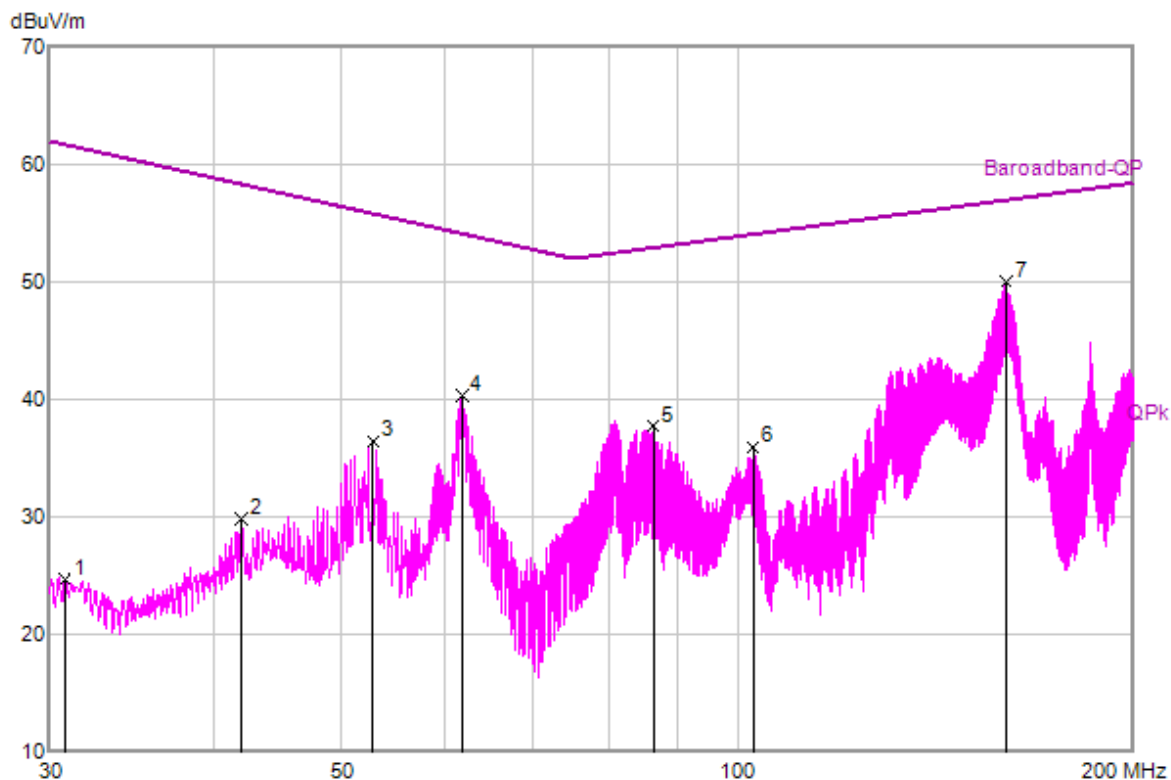
Test report No.: 24-01543-CX-SHA-00
 Manufacturer: EcoFlow Inc.
 Type: EF-FC-301-1

30 to 200MHz – Vertical Narrowband:



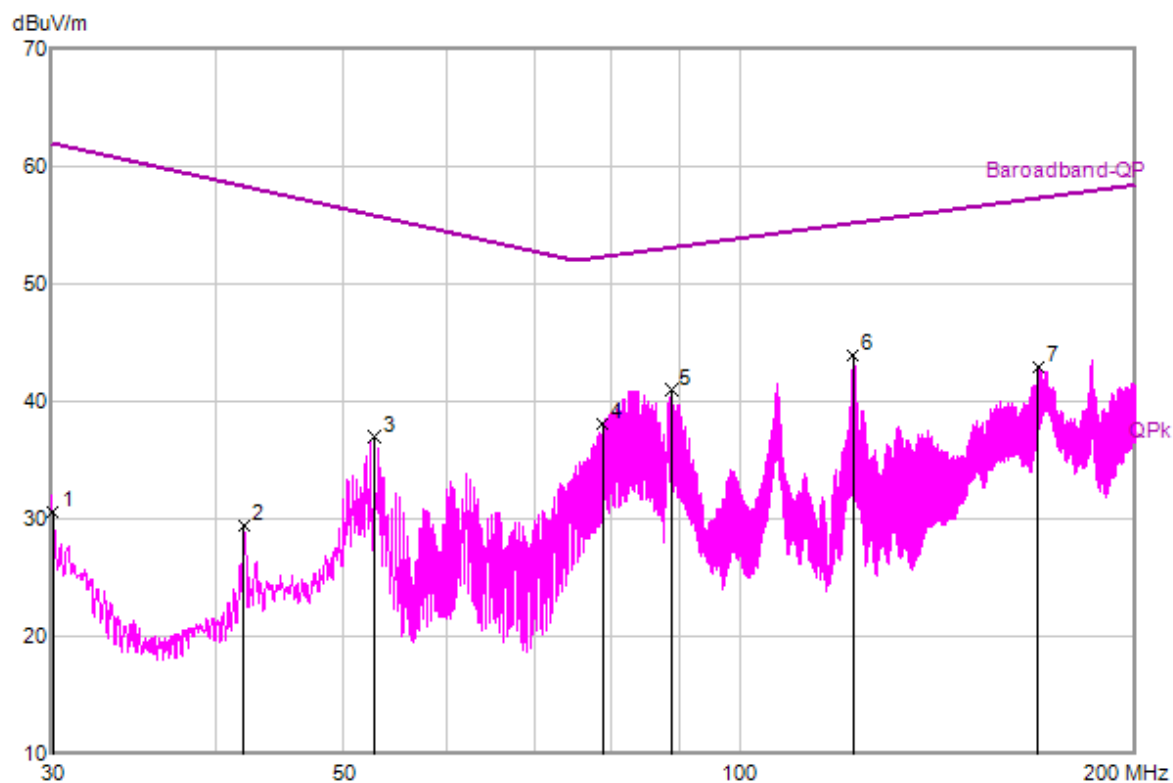
No.	Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	32.25	28.97	51.21	22.24	AVG
2	41.05	30.54	48.58	18.04	AVG
3	49.85	33.67	46.46	12.79	AVG
4	65.6	24.78	43.46	18.68	AVG
5	93.1	24.16	43.42	19.26	AVG
6	112.4	30.19	44.66	14.47	AVG
7	144.5	38.33	46.31	7.98	AVG

30 to 200MHz – Horizontal Broadband:



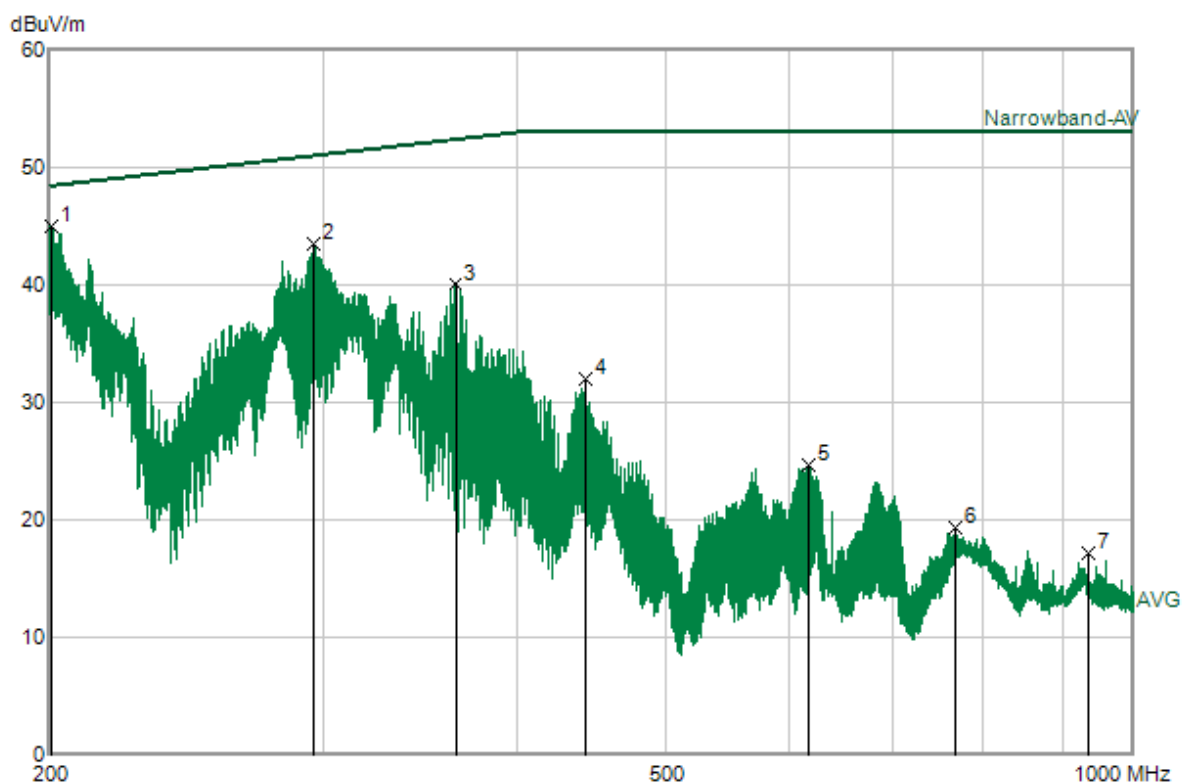
No.	Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.81	24.72	61.71	36.99	QP
2	42	29.82	58.33	28.51	QP
3	52.8	36.43	55.83	19.4	QP
4	61.71	40.34	54.13	13.79	QP
5	86.31	37.71	52.92	15.21	QP
6	102.81	35.93	54.07	18.14	QP
7	160.17	50.06	56.99	6.93	QP

30 to 200MHz – Vertical Broadband:



No.	Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.09	30.61	61.97	31.36	QP
2	42	29.42	58.33	28.91	QP
3	52.8	37.03	55.83	18.8	QP
4	78.69	38.15	52.32	14.17	QP
5	88.71	41	53.1	12.1	QP
6	122.01	43.95	55.2	11.25	QP
7	168.75	42.95	57.33	14.38	QP

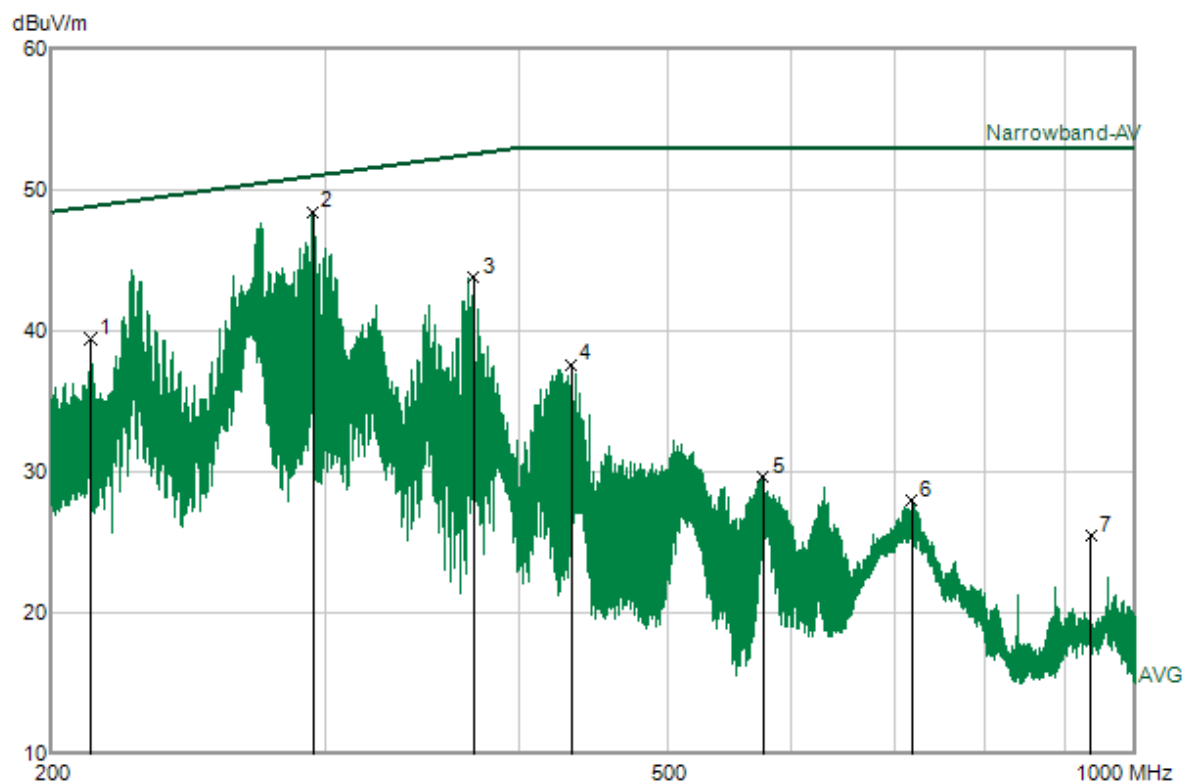
200 to 1000MHz – Horizontal Narrowband:



No.	Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	200.5	45.04	48.46	3.42	AVG
2	296.1	43.5	51.02	7.52	AVG
3	365.5	40.05	52.41	12.36	AVG
4	443.1	31.99	53	21.01	AVG
5	617.6	24.69	53	28.31	AVG
6	767.3	19.3	53	33.7	AVG
7	936	17.19	53	35.81	AVG

Test report No.: 24-01543-CX-SHA-00
 Manufacturer: EcoFlow Inc.
 Type: EF-FC-301-1

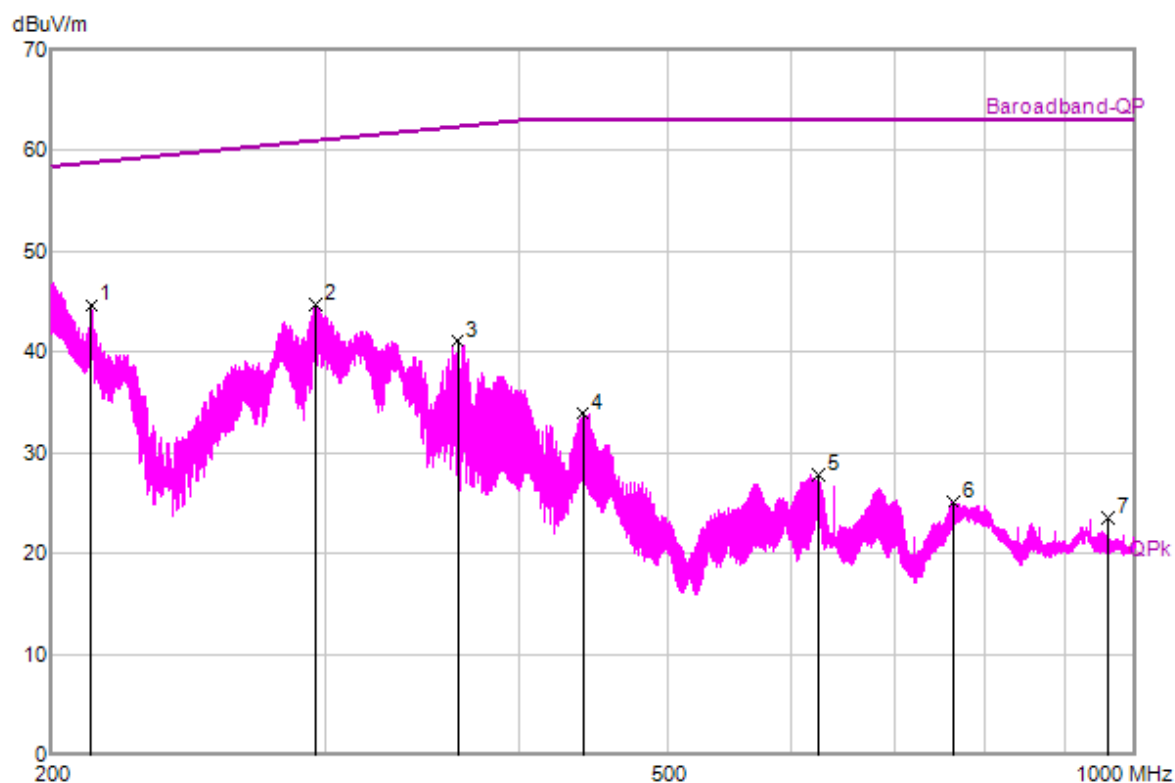
200 to 1000MHz – Vertical Narrowband:



No.	Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	212.1	39.45	48.83	9.38	AVG
2	294.8	48.41	50.99	2.58	AVG
3	374.3	43.81	52.56	8.75	AVG
4	432.7	37.57	53	15.43	AVG
5	575.4	29.64	53	23.36	AVG
6	717.2	27.96	53	25.04	AVG
7	936	25.48	53	27.52	AVG

Test report No.: 24-01543-CX-SHA-00
 Manufacturer: EcoFlow Inc.
 Type: EF-FC-301-1

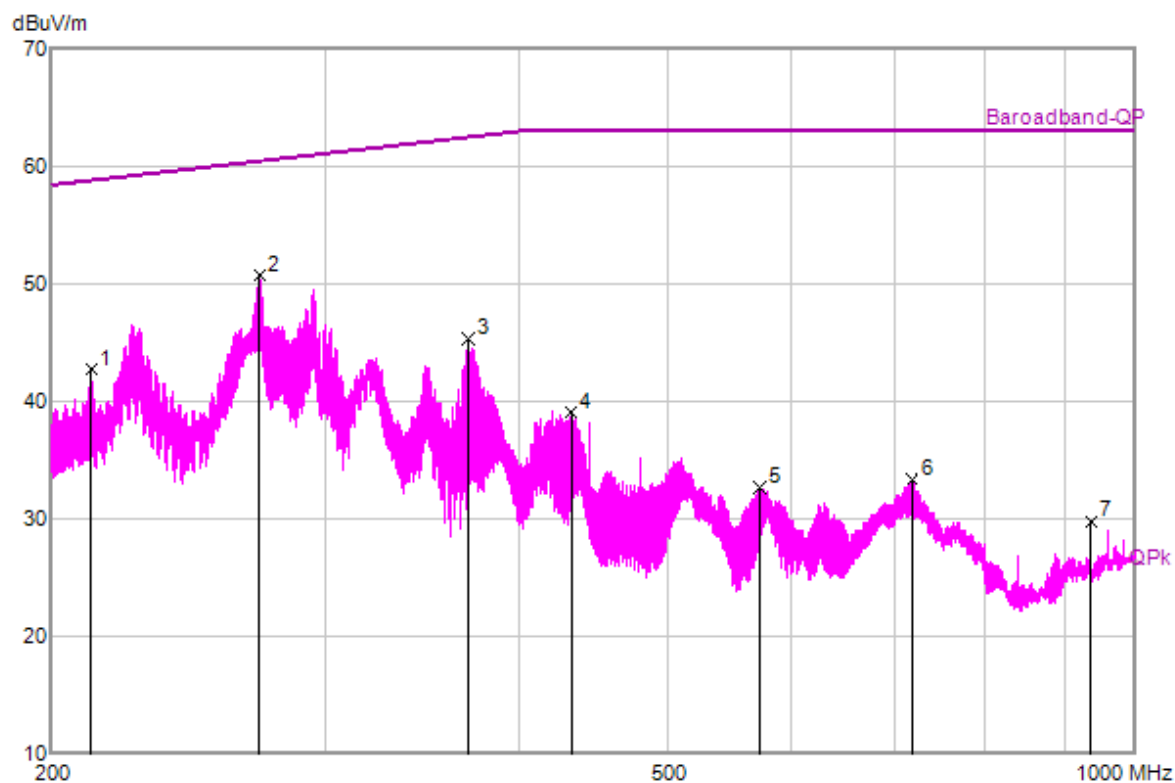
200 to 1000MHz – Horizontal Broadband:



No.	Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	212.12	44.63	58.83	14.2	QP
2	296.09	44.78	61.02	16.24	QP
3	365.51	41.11	62.41	21.3	QP
4	440.3	33.9	63	29.1	QP
5	624.11	27.82	63	35.18	QP
6	764.12	25.1	63	37.9	QP
7	960.02	23.6	63	39.4	QP

Test report No.: 24-01543-CX-SHA-00
 Manufacturer: EcoFlow Inc.
 Type: EF-FC-301-1

200 to 1000MHz – Vertical Broadband:



No.	Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	212.09	42.75	58.83	16.08	QP
2	272.3	50.75	60.47	9.72	QP
3	371.51	45.37	62.51	17.14	QP
4	432.71	39.06	63	23.94	QP
5	572.99	32.67	63	30.33	QP
6	717.62	33.39	63	29.61	QP
7	935.99	29.79	63	33.21	QP

Test report No.: 24-01543-CX-SHA-00
 Manufacturer: EcoFlow Inc.
 Type: EF-FC-301-1

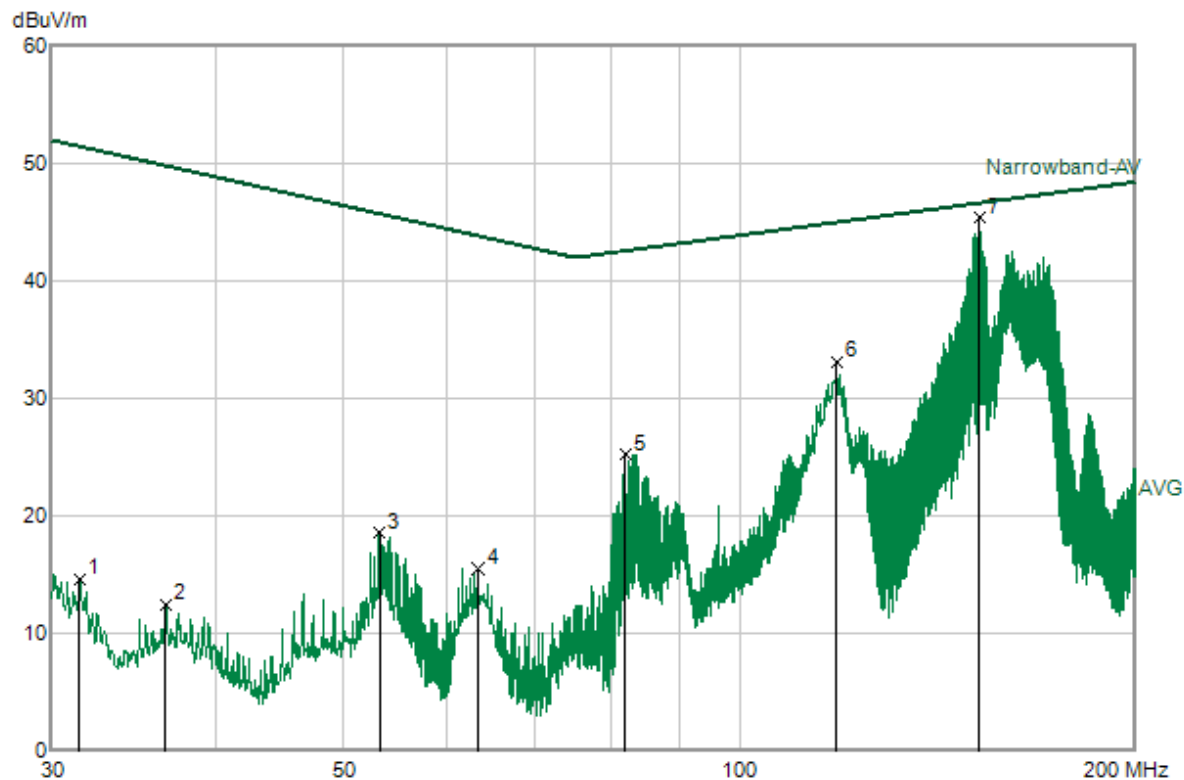
DUT Model: EF-FC-301-1

Test Voltage: 45V

Test Mode: Reverse Charge Mode

Test Result: Pass

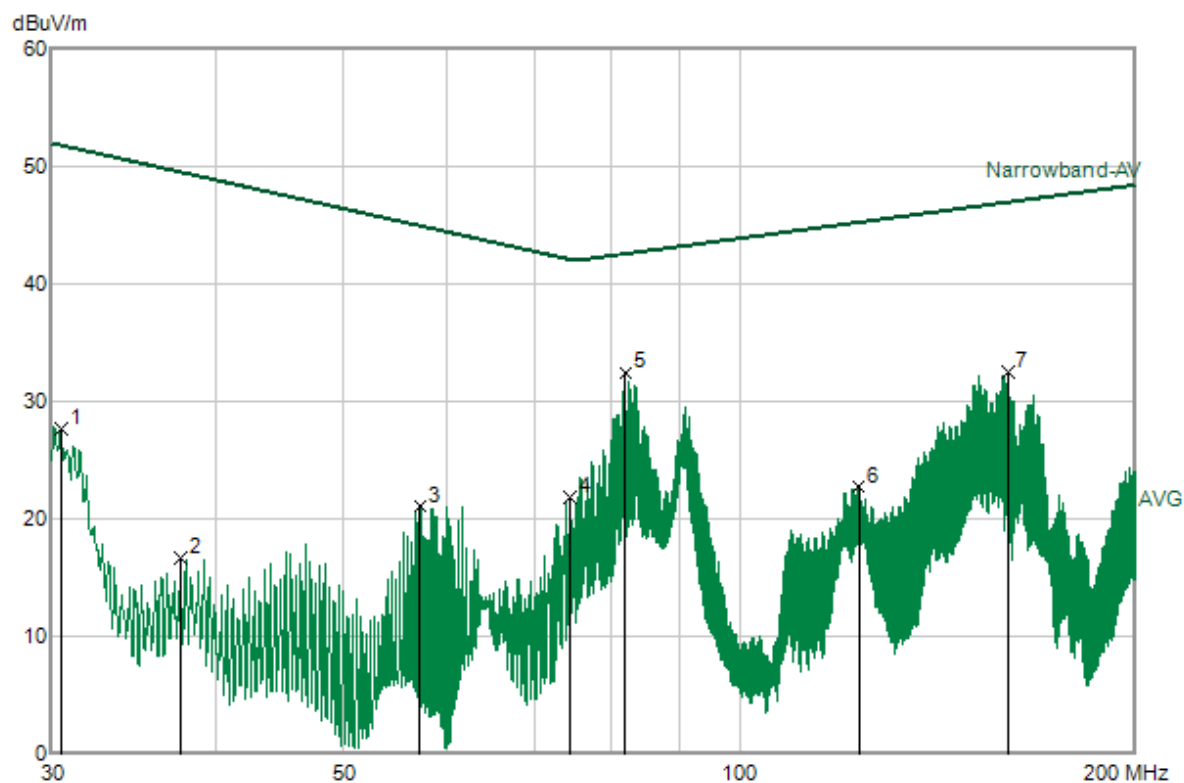
30 to 200MHz – Horizontal Narrowband:



No.	Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	31.5	14.59	51.47	36.88	AVG
2	36.65	12.43	49.81	37.38	AVG
3	53.25	18.56	45.74	27.18	AVG
4	63.25	15.48	43.86	28.38	AVG
5	81.9	25.24	42.58	17.34	AVG
6	118.55	33.13	45.01	11.88	AVG
7	152.3	45.36	46.65	1.29	AVG

Test report No.: 24-01543-CX-SHA-00
 Manufacturer: EcoFlow Inc.
 Type: EF-FC-301-1

30 to 200MHz – Vertical Narrowband:

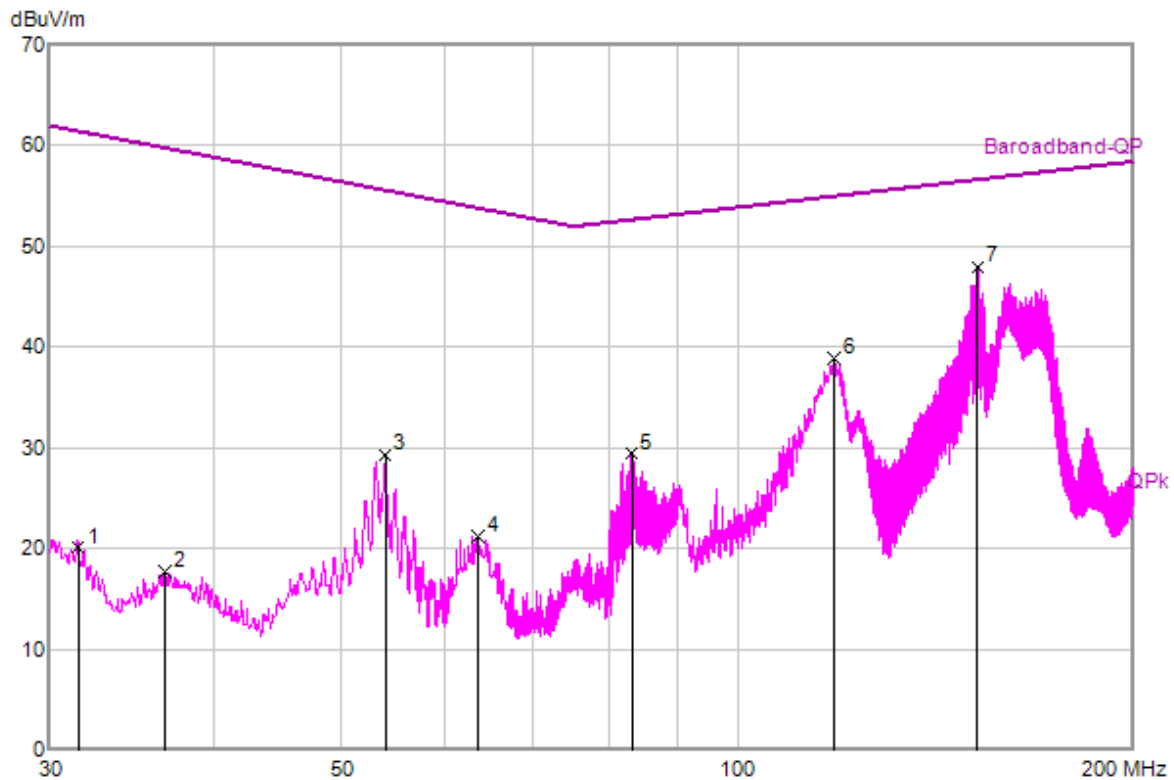


No.	Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.5	27.7	51.82	24.12	AVG
2	37.6	16.7	49.54	32.84	AVG
3	57.2	21.04	44.96	23.92	AVG
4	74.3	21.82	42.1	20.28	AVG
5	81.9	32.43	42.58	10.15	AVG
6	123.2	22.71	45.26	22.55	AVG
7	159.9	32.53	46.97	14.44	AVG

Test report No.: 24-01543-CX-SHA-00
 Manufacturer: EcoFlow Inc.
 Type: EF-FC-301-1



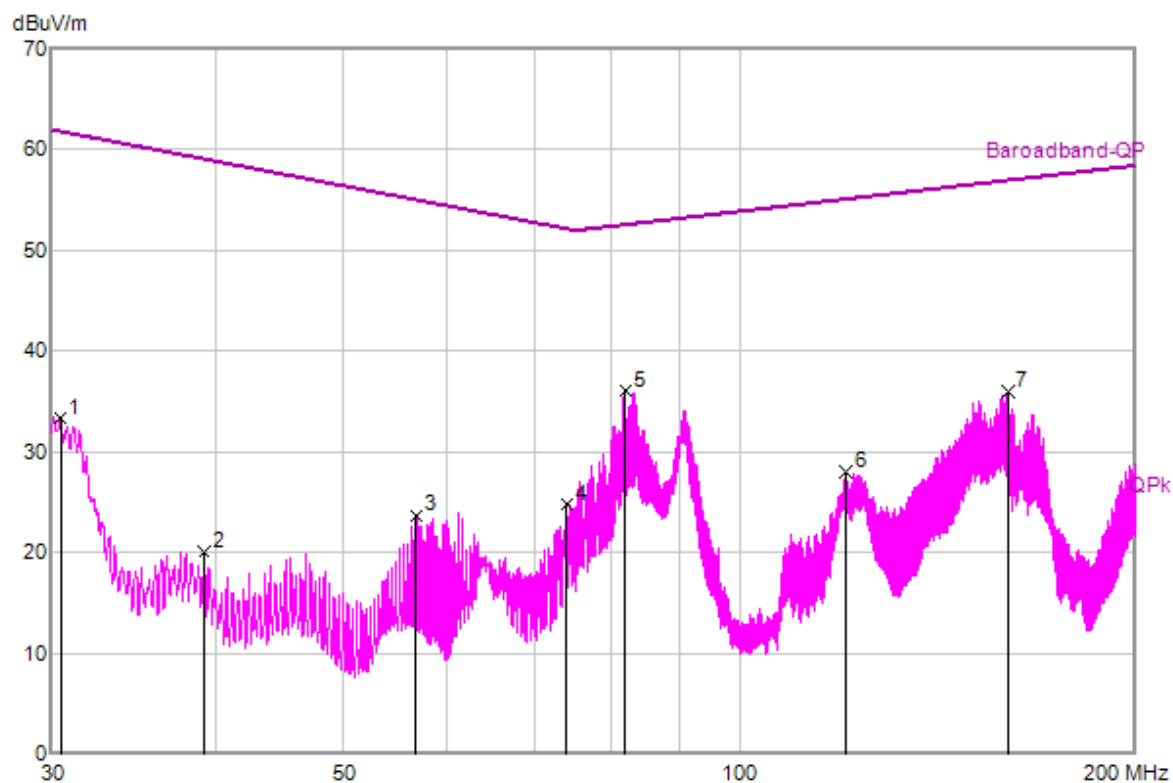
30 to 200MHz – Horizontal Broadband:



No.	Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	31.56	20.12	61.45	41.33	QP
2	36.72	17.71	59.79	42.08	QP
3	54	29.29	55.59	26.3	QP
4	63.51	21.27	53.81	32.54	QP
5	83.1	29.42	52.67	23.25	QP
6	118.5	38.94	55.01	16.07	QP
7	152.31	47.96	56.66	8.7	QP

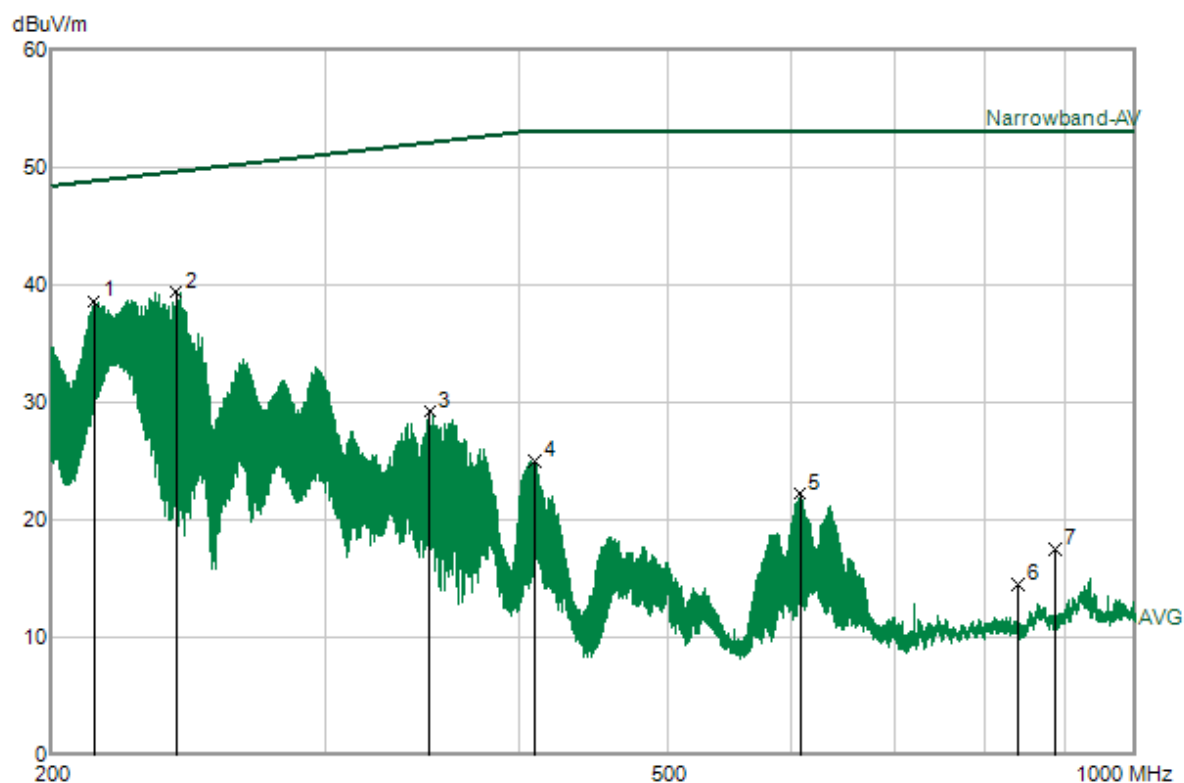
Test report No.: 24-01543-CX-SHA-00
 Manufacturer: EcoFlow Inc.
 Type: EF-FC-301-1

30 to 200MHz – Vertical Broadband:



No.	Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.48	33.31	61.83	28.52	QP
2	39.21	20.09	59.08	38.99	QP
3	56.79	23.68	55.04	31.36	QP
4	73.92	24.75	52.16	27.41	QP
5	81.9	36.03	52.58	16.55	QP
6	120.39	27.97	55.11	27.14	QP
7	159.93	36.01	56.98	20.97	QP

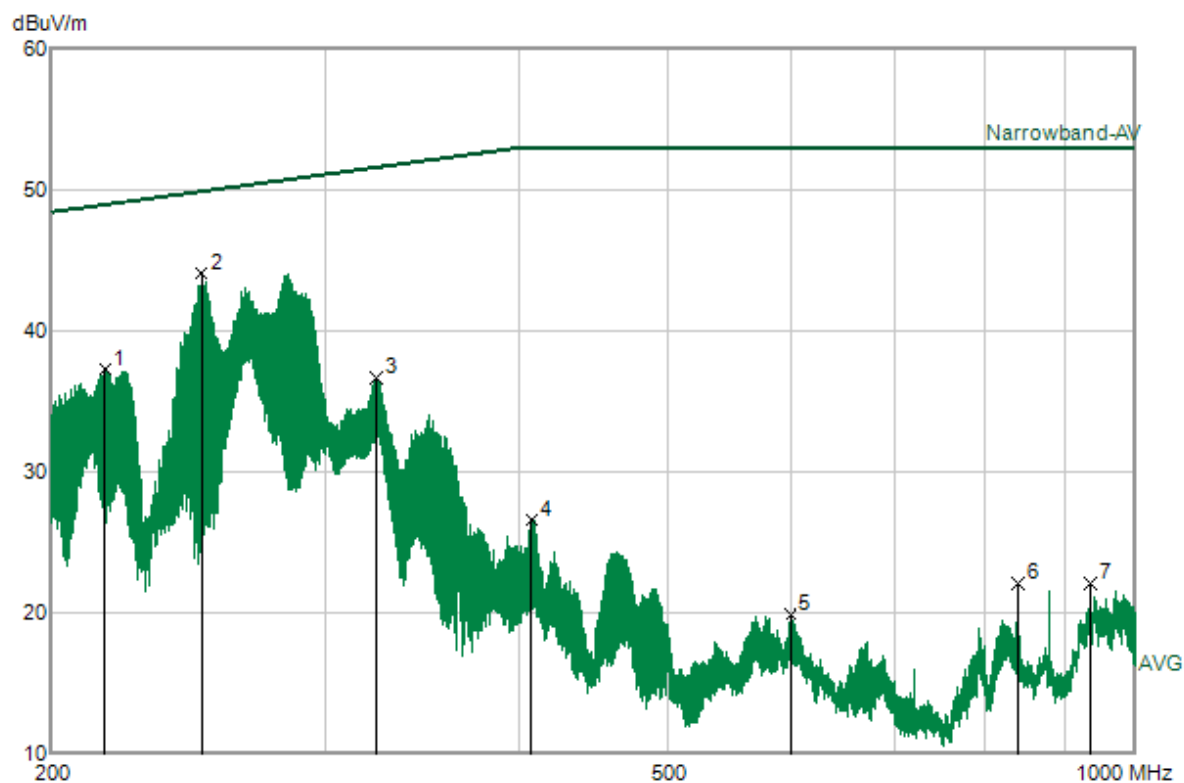
200 to 1000MHz – Horizontal Narrowband:



No.	Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	213.1	38.61	48.86	10.25	AVG
2	240.8	39.42	49.67	10.25	AVG
3	350.8	29.23	52.14	22.91	AVG
4	409.7	25.03	53	27.97	AVG
5	607.9	22.21	53	30.79	AVG
6	840	14.58	53	38.42	AVG
7	888	17.56	53	35.44	AVG

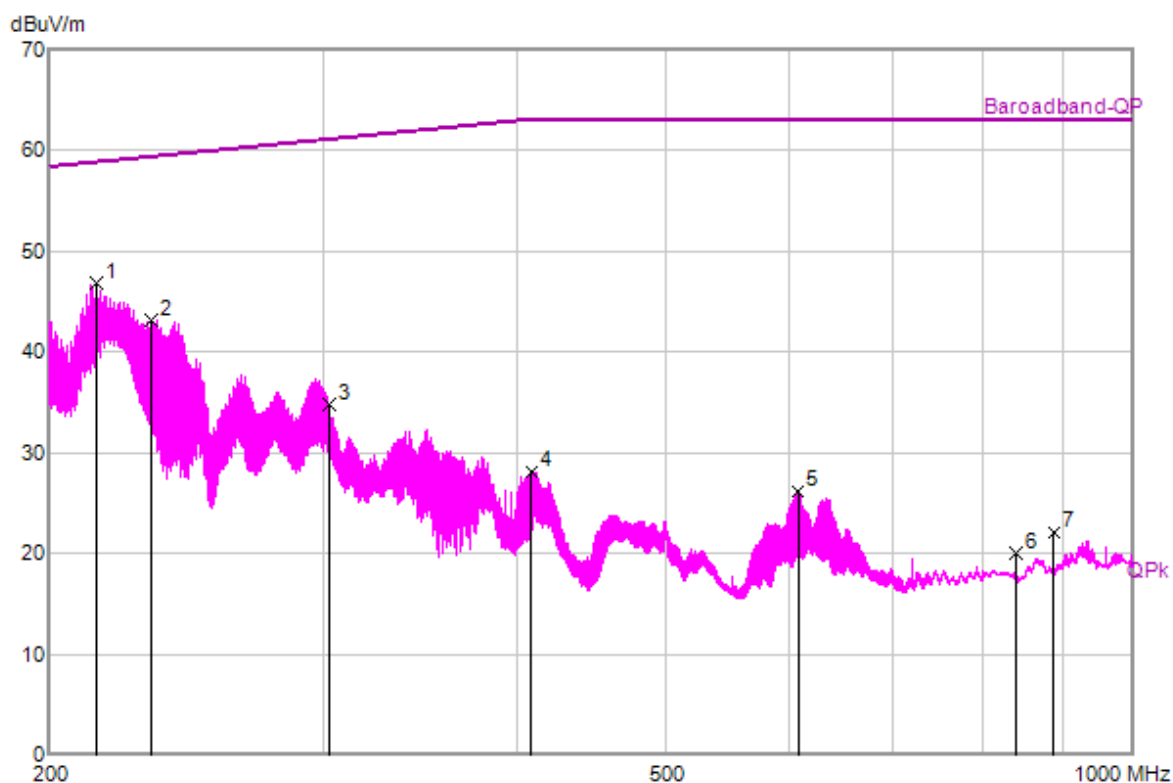
Test report No.: 24-01543-CX-SHA-00
 Manufacturer: EcoFlow Inc.
 Type: EF-FC-301-1

200 to 1000MHz – Vertical Narrowband:



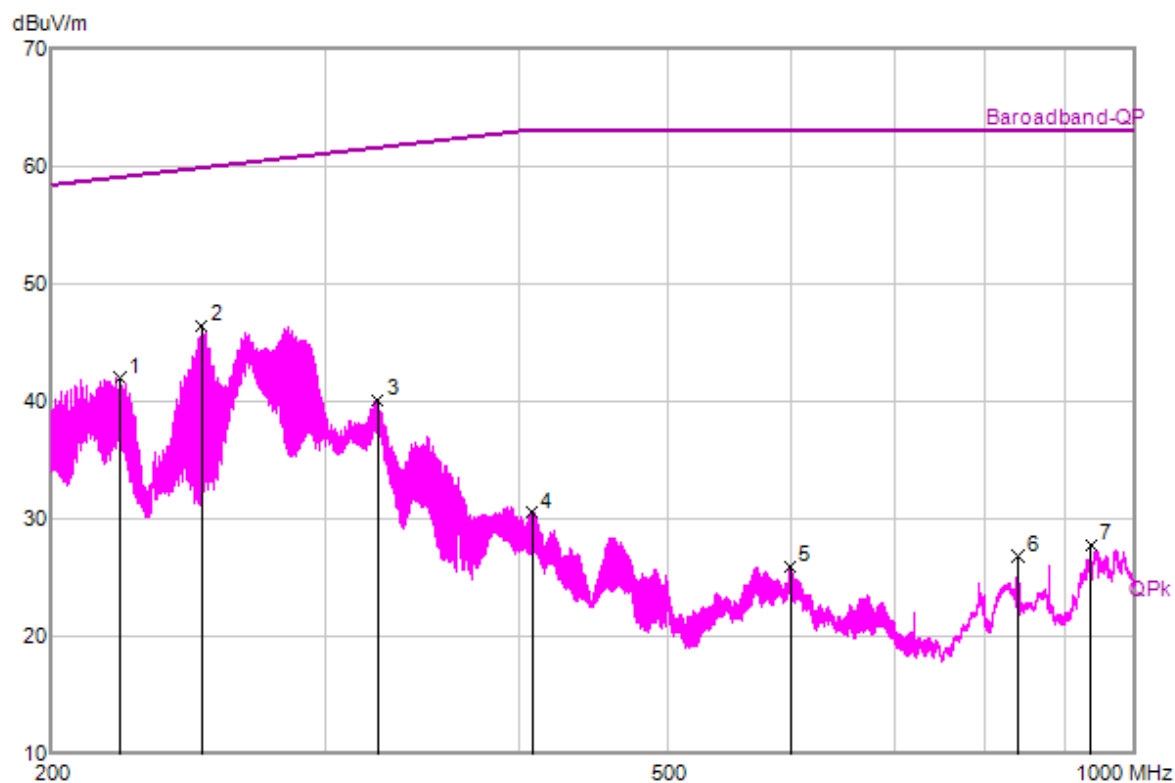
No.	Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	216.5	37.27	48.97	11.7	AVG
2	250	44.08	49.91	5.83	AVG
3	323.9	36.64	51.61	14.97	AVG
4	408.1	26.55	53	26.45	AVG
5	599.1	19.89	53	33.11	AVG
6	840	22.11	53	30.89	AVG
7	936	22.06	53	30.94	AVG

200 to 1000MHz – Horizontal Broadband:



No.	Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	214.31	46.82	58.9	12.08	QP
2	232.79	43.19	59.44	16.25	QP
3	302.99	34.79	61.17	26.38	QP
4	409.25	28.19	63	34.81	QP
5	607.91	26.16	63	36.84	QP
6	840.02	20.01	63	42.99	QP
7	887.99	22.08	63	40.92	QP

200 to 1000MHz – Vertical Broadband:



No.	Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	221.6	42.04	59.12	17.08	QP
2	250.01	46.43	59.91	13.48	QP
3	324.71	40.11	61.63	21.52	QP
4	408.11	30.55	63	32.45	QP
5	599.12	25.95	63	37.05	QP
6	840.02	26.79	63	36.21	QP
7	935.99	27.76	63	35.24	QP

Test report No.: 24-01543-CX-SHA-00
 Manufacturer: EcoFlow Inc.
 Type: EF-FC-301-1

Annex 2b Immunity of ESA to conducted transient interferences

DUT Model: EF-FC-301-1 Test Voltage: 13.5V
 Test Mode: Charge Mode Test Result: Pass

Measurement result:

Test pulse	Test level	Number of pulse / test time	Burst cycle / pulse Repetition time	Required minimum function status*	Status of function true value
1	-75V	5000 pulses	0.5s	C	B
2a	+37V	5000 pulses	0.2s	B	B
2b	+10V	10 pulses	0.5s	C	B
3a	-112V	1h	90ms	A	A
3b	+75V	1h	90ms	A	A
4	-6V	1 pulse	/	C	B

DUT Model: EF-FC-301-1 Test Voltage: 27V
 Test Mode: Charge Mode Test Result: Pass

Measurement result:

Test pulse	Test level	Number of pulse / test time	Burst cycle / pulse Repetition time	Required minimum function status*	Status of function true value
1	-450V	5000 pulses	0.5s	C	A
2a	+37V	5000 pulses	0.2s	B	A
2b	+20V	10 pulses	0.5s	C	B
3a	-150V	1h	90ms	A	A
3b	+150V	1h	90ms	A	A
4	-12V	1 pulse	/	C	B

Remark:

"A": all functions of EUT perform as designed during and after exposure to disturbance.

"B": all functions of EUT perform as designed during exposure. However, one or more of them can go beyond specified tolerance. All functions return automatically to within normal limits after exposure is removed. Memory functions shall remain class A.

"C": EUT power off during exposure but return automatically to normal operation after exposure is removed

"D": one or more functions of a device/system do not perform as designed during exposure and do not return to normal operation until exposure is removed and the device/system is reset by simple "operator/use" action.



Test report No.: 24-01543-CX-SHA-00
Manufacturer: EcoFlow Inc.
Type: EF-FC-301-1

Annex 2c Conducted transients from ESAs to the vehicle power supply

DUT Model: EF-FC-301-1 Test Voltage: 13.5V
Test Mode: Charge Mode Test Result: Pass

Measurement result:

Polarity of pulse amplitude	Maximum allowed value for vehicles with 12V systems	Measured Pulse amplitude True Value (Fast)	Measured Pulse amplitude True Value (Slow)
Positive	+75V	+12.8V	+11.8V
Negative	-100V	-11.5V	-11.6V

DUT Model: EF-FC-301-1 Test Voltage: 27V
Test Mode: Charge Mode Test Result: Pass

Measurement result:

Polarity of pulse amplitude	Maximum allowed value for vehicles with 24V systems	Measured Pulse amplitude True Value (Fast)	Measured Pulse amplitude True Value (Slow)
Positive	+150V	+39.6V	+41.2V
Negative	-450V	-21.2V	-21.4V

Test report No.: 24-01543-CX-SHA-00
 Manufacturer: EcoFlow Inc.
 Type: EF-FC-301-1

Annex 2d: Immunity of ESA to electromagnetic radiation

DUT Model: EF-FC-301-1 Test Voltage: 13.5V
 Test Mode: Charge Mode Test Result: Pass

Measurement result:

Frequency range (MHz)	Test level	Type of modulation	Test distance	Antenna position	Acceptable status	Result status
20 to 400	60mA	AM,80%	150mm	/	A	A
400 to 800	30V/m	AM,80%	1m	Vertical	A	A
800 to 2000	30V/m	PM,577us,217Hz	1m	Vertical	A	A

DUT Model: EF-FC-301-1 Test Voltage: 27V
 Test Mode: Charge Mode Test Result: Pass

Measurement result:

Frequency range (MHz)	Test level	Type of modulation	Test distance	Antenna position	Acceptable status	Result status
20 to 400	60mA	AM,80%	150mm	/	A	A
400 to 800	30V/m	AM,80%	1m	Vertical	A	A
800 to 2000	30V/m	PM,577us,217Hz	1m	Vertical	A	A

DUT Model: EF-FC-301-1 Test Voltage: 45V
 Test Mode: Reverse Charge Mode Test Result: Pass

Measurement result:

Frequency range (MHz)	Test level	Type of modulation	Test distance	Antenna position	Acceptable status	Result status
20 to 400	60mA	AM,80%	150mm	/	A	A
400 to 800	30V/m	AM,80%	1m	Vertical	A	A
800 to 2000	30V/m	PM,577us,217Hz	1m	Vertical	A	A

Remark:

"A": all functions of EUT perform as designed during and after exposure to disturbance.

"B": all functions of EUT perform as designed during exposure. However, one or more of them can go beyond specified tolerance. All functions return automatically to within normal limits after exposure is removed. Memory functions shall remain class A.

"C": EUT power off during exposure but return automatically to normal operation after exposure is removed

"D": one or more functions of a device/system do not perform as designed during exposure and do not return to normal operation until exposure is removed and the device/system is reset by simple "operator/use" action.

EcoFlow Inc.

Type: EF-FC-301-1
Information Document No.: EF-FC-301-1-00

Date: 2024-3-26

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**APPLICATION FOR APPROVAL
PURSUANT TO THE ECE REGULATION No. 10.06**

**UNIFORM PROVISIONS CONCERNING THE APPROVAL
OF MOTOR VEHICLES WITH REGARD
TO ELECTROMAGNETIC COMPATIBILITY**

Company name: EcoFlow Inc.

Type: EF-FC-301-1

Huizhou, March 26, 2024



EcoFlow Inc.	Type: EF-FC-301-1 Information Document No.: EF-FC-301-1-00
	Date: 2024-3-26
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EcoFlow Inc.	Type: EF-FC-301-1 Information Document No.: EF-FC-301-1-00
	Date: 2024-3-26
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Confirmation

We hereby declare that the product of EcoFlow Inc., type EF-FC-301-1 submitted for the type approval.

1. is compatible with the enclosed documentation
- and
2. has been manufactured under condition of mass production.

EcoFlow Inc.	Type: EF-FC-301-1 Information Document No.: EF-FC-301-1-00
	Date: 2024-3-26
	Page 4 of 35

INFORMATION DOCUMENT FOR TYPE-APPROVAL OF AN ELECTRIC/ELECTRONIC SUB-
ASSEMBLY WITH RESPECT TO
ELECTROMAGNETIC COMPATIBILITY ACCORDING ANNEX 2B

1. Make (trade name of the manufacturer) : EcoFlow Inc.
2. Type : EF-FC-301-1
 - 2.1. Variants (if applicable) : N/A
 - 2.2. General commercial description(s) : EcoFlow Alternator charger
3. Means of identification of type if marked : Letters and digits
on the ~~vehicle~~/component/STU
 - 3.1. Location of that marking : Rating plate affixed on top of the device
4. Name and address of the manufacturer : EcoFlow Inc.
1st Floor, Building 1, Plant E, Jiehe Industrial City, Shuitian Community, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, P.R. China
5. In the case of components and separate technical units, location and method of affixing of the approval mark : Rating plate affixed on top of the device
6. Address(es) of assembly plant(s) : EcoFlow Inc.
1st Floor, Building 1, Plant E, Jiehe Industrial City, Shuitian Community, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, P.R. China
7. This ESA shall be approved as a : Component
8. Any restrictions of use and conditions for fitting : No restrictions
9. Electrical system rated voltage : Charge Mode 12/24V DC ~~pos./neg.~~ ground ⁽¹⁾
Reverse Charge Mode 40-60V DC ~~pos./neg.~~ ground ⁽¹⁾
10. Charger: on board/external : N/A
11. Charging current: DC/AC : N/A
(number of phases/frequency)
12. Maximal nominal current (in each mode if necessary) : N/A
13. Nominal charging voltage : N/A
14. Basic ESA interface functions: ex. : N/A
L1/L2/L3/N/PE/control pilot
15. Minimum R_{sce} value (see paragraph 7.11. of this Regulation) : N/A



114MM

23.5MM

EcoFlow Alternator Charger

Model/Modell/Modèle: EF-FC-301-1

EC REP

support.eu@ecoflow.com

EcoFlow Europe s.r.o.

Fuhai Street, Bao'an District, Shenzhen City,

Guangdong Province, P.R. China

UK REP

support.eu@ecoflow.com

Ecoflow Innovation UK Limited 41

Devonshire Street Ground Floor Office

1 London United Kingdom W1G 7AJ

Made in China

(Charge Mode) Input/(Lademodus) Eingang/(Mode de charge) Entrée: 12/24V=, 76A max

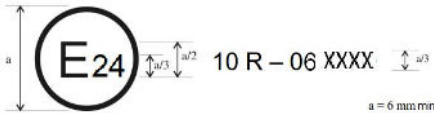
(Charge Mode) Output/(Lademodus) Ausgang/(Mode de charge) Sortie: 40V-60V=, 800W max

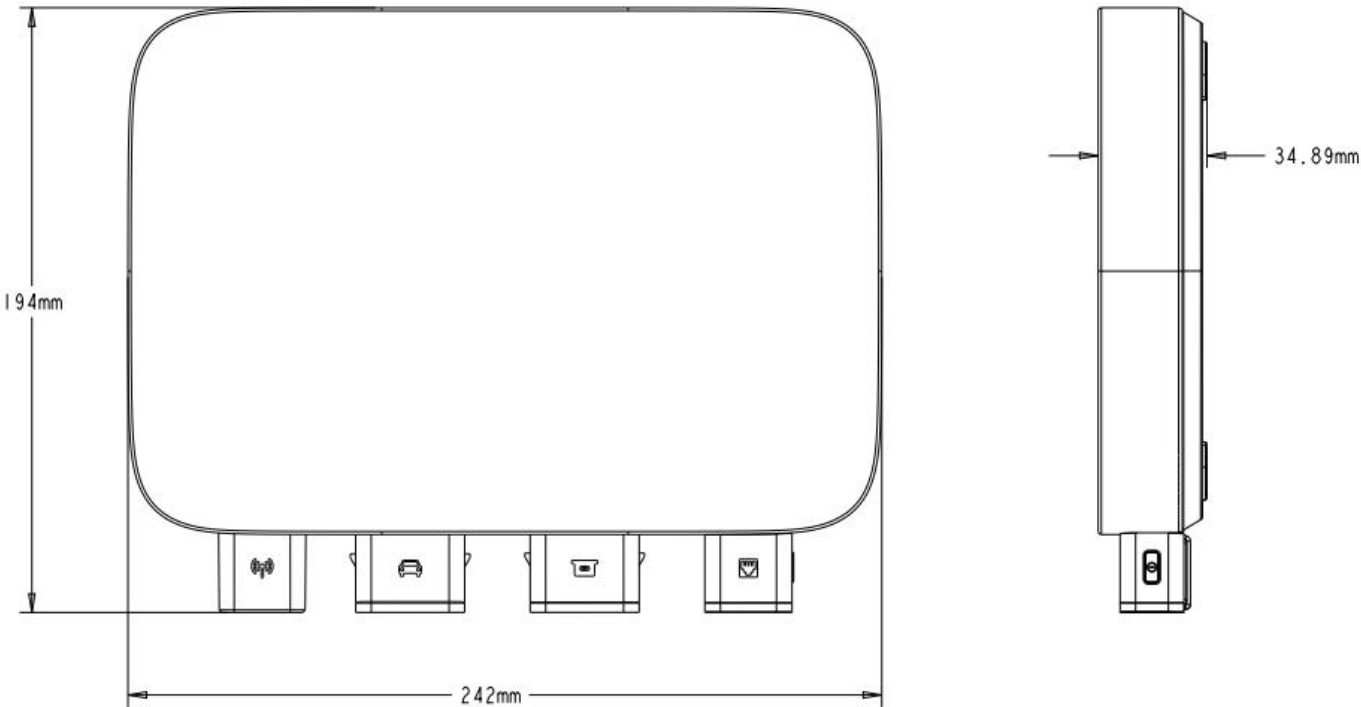
(Reverse Charge Mode) Input/(Reverse Charge Modus) Eingang/(Mode de charge inversée) Entrée: 40V-60V=, 21A max

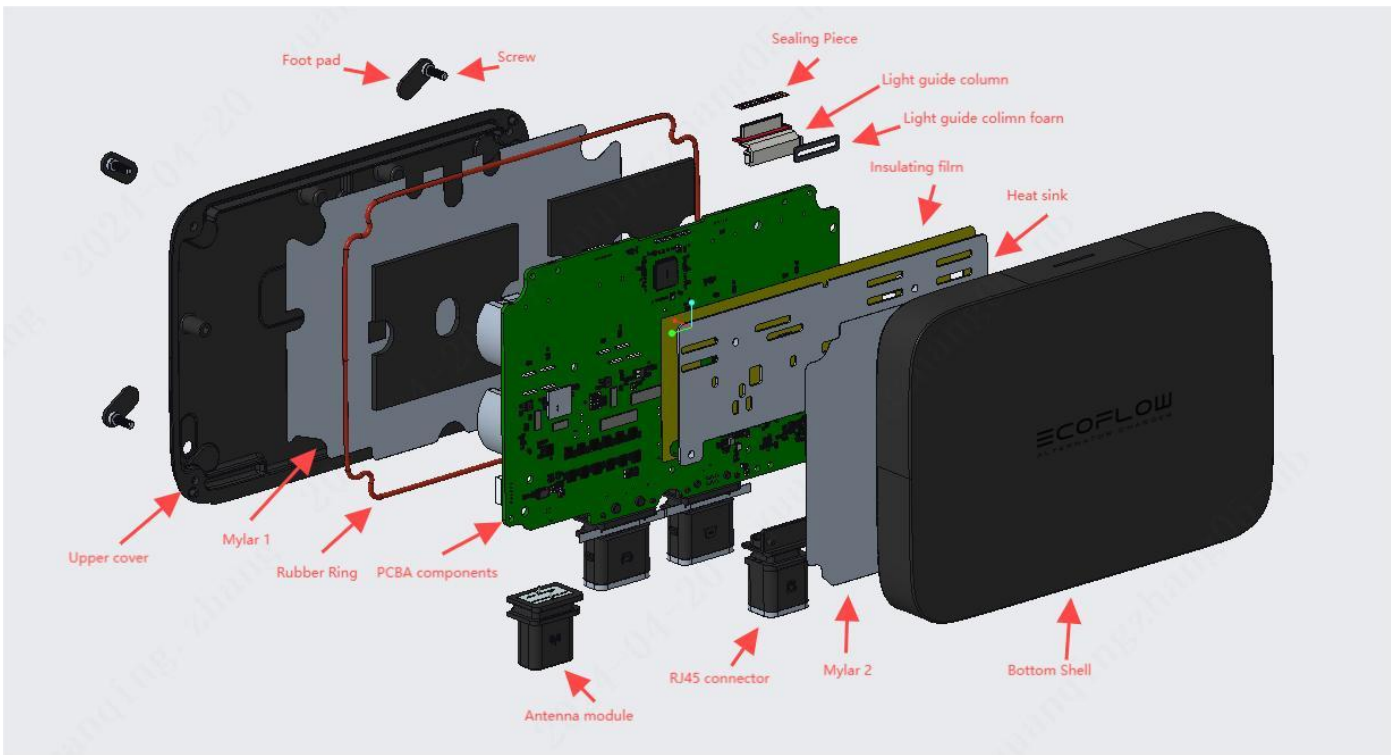
(Reverse Charge Mode) Output/(Reverse Charge Modus) Ausgang/(Mode de charge inversée) Sortie: 13.8V/27.6V=, 800W max

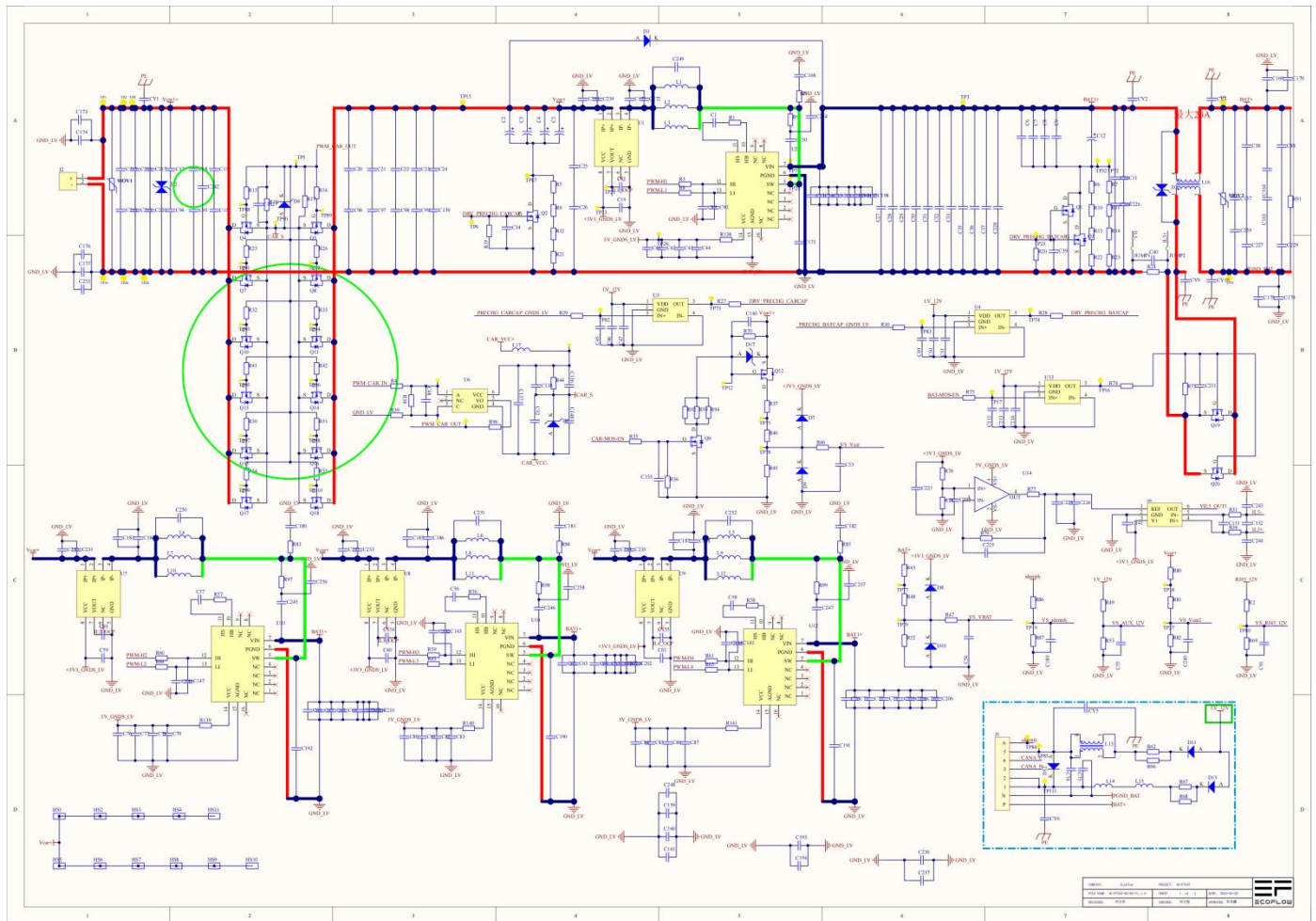
E24

10R-06 5568





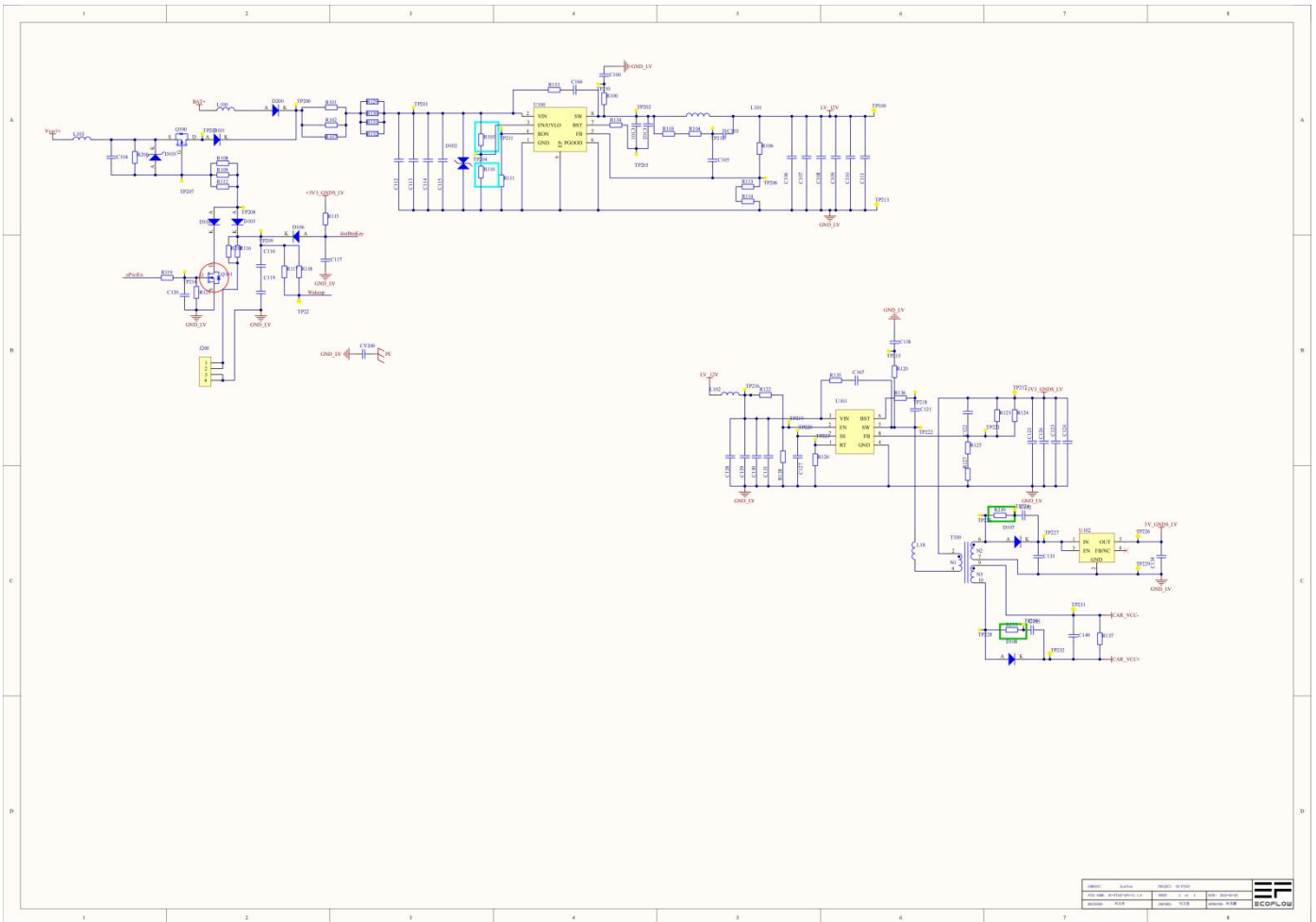


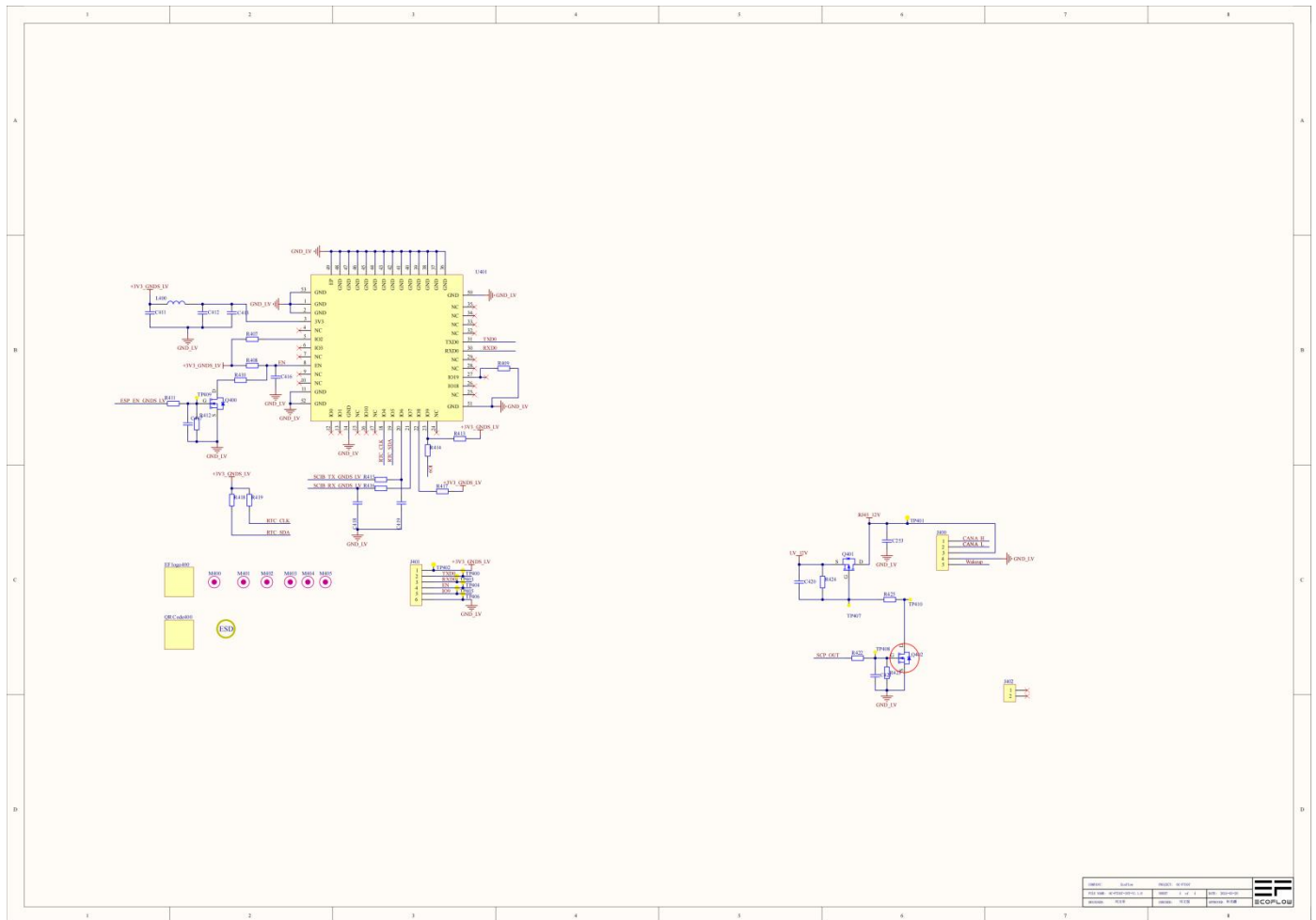


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Circuit Diagram

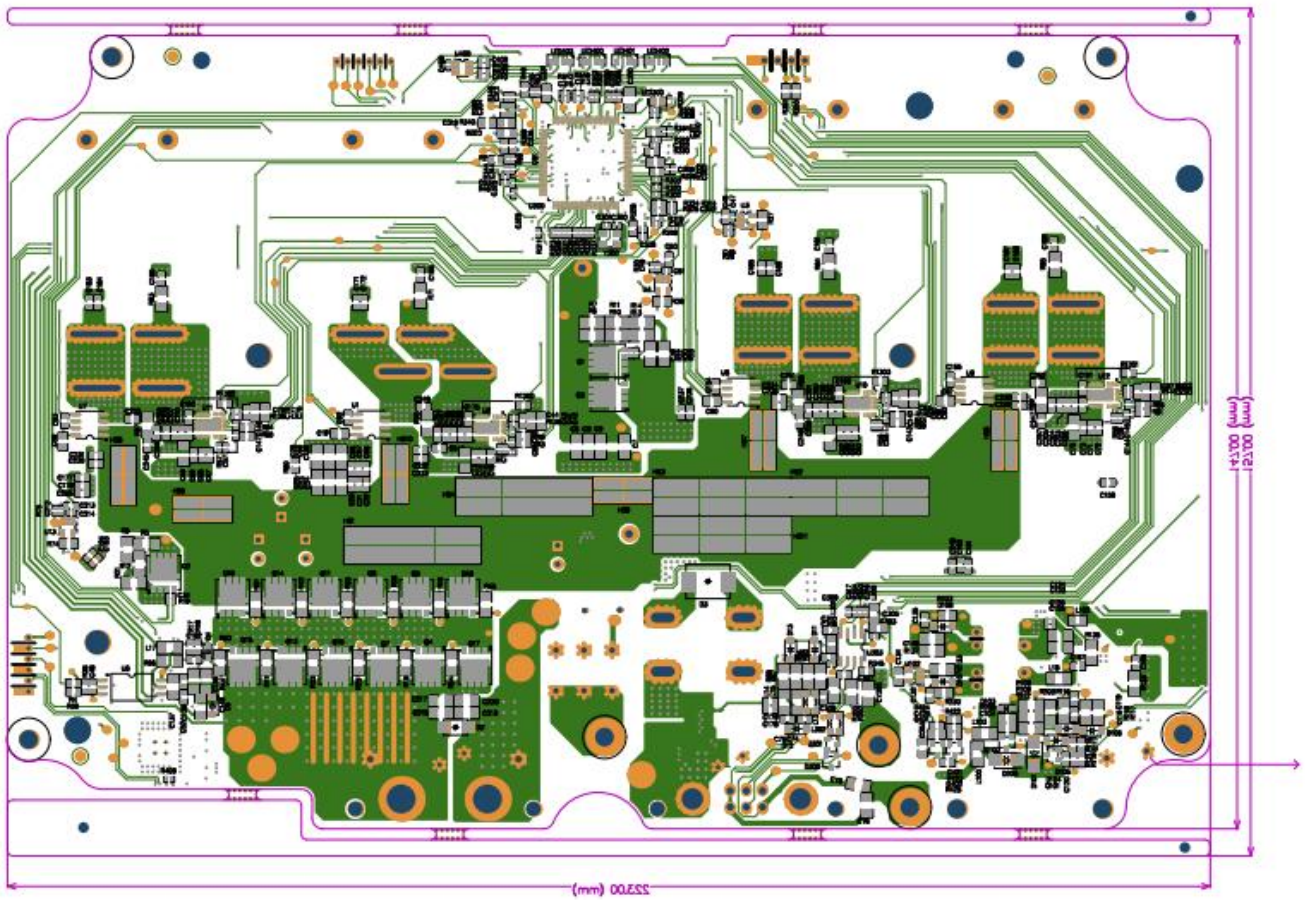




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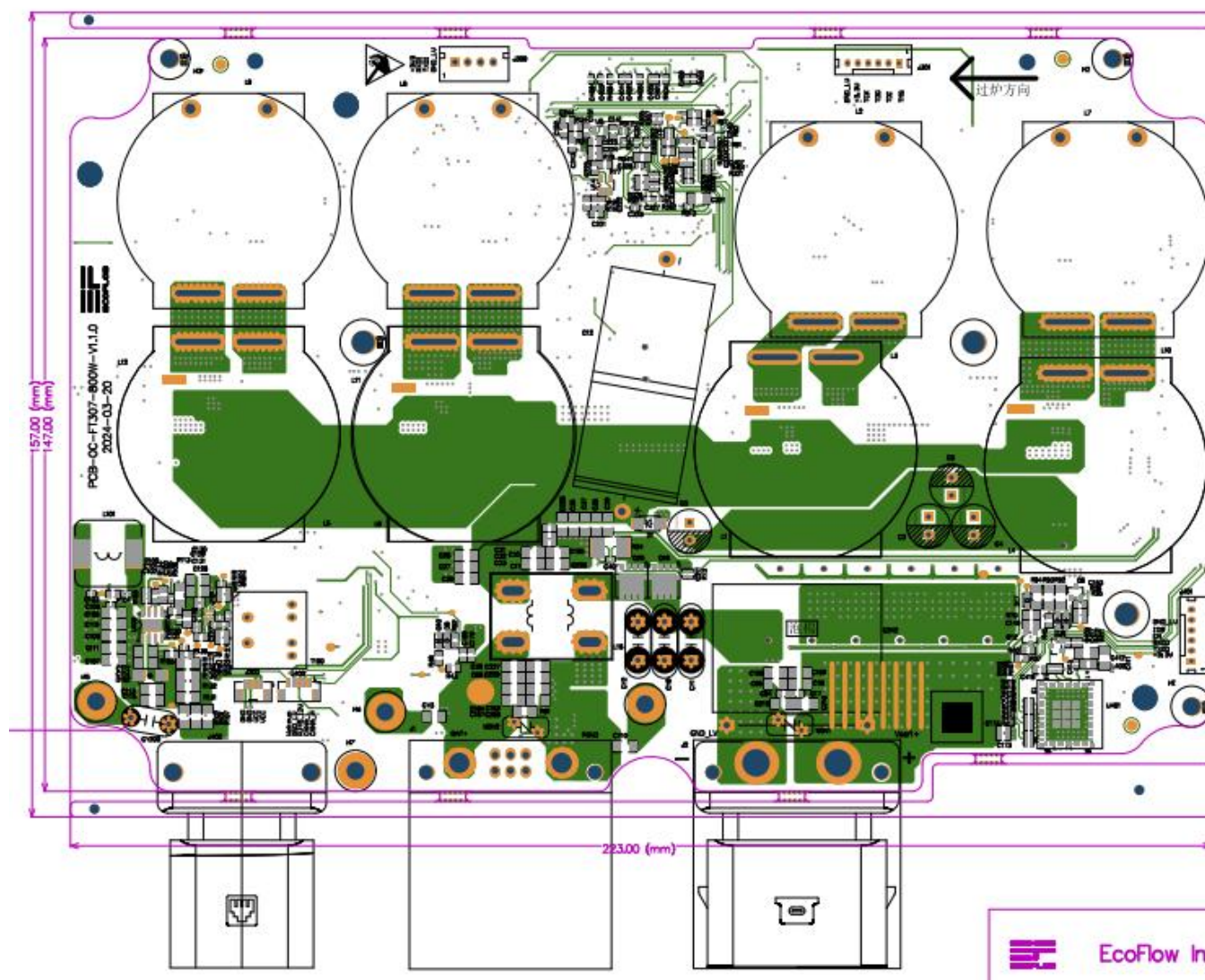
Circuit Diagram

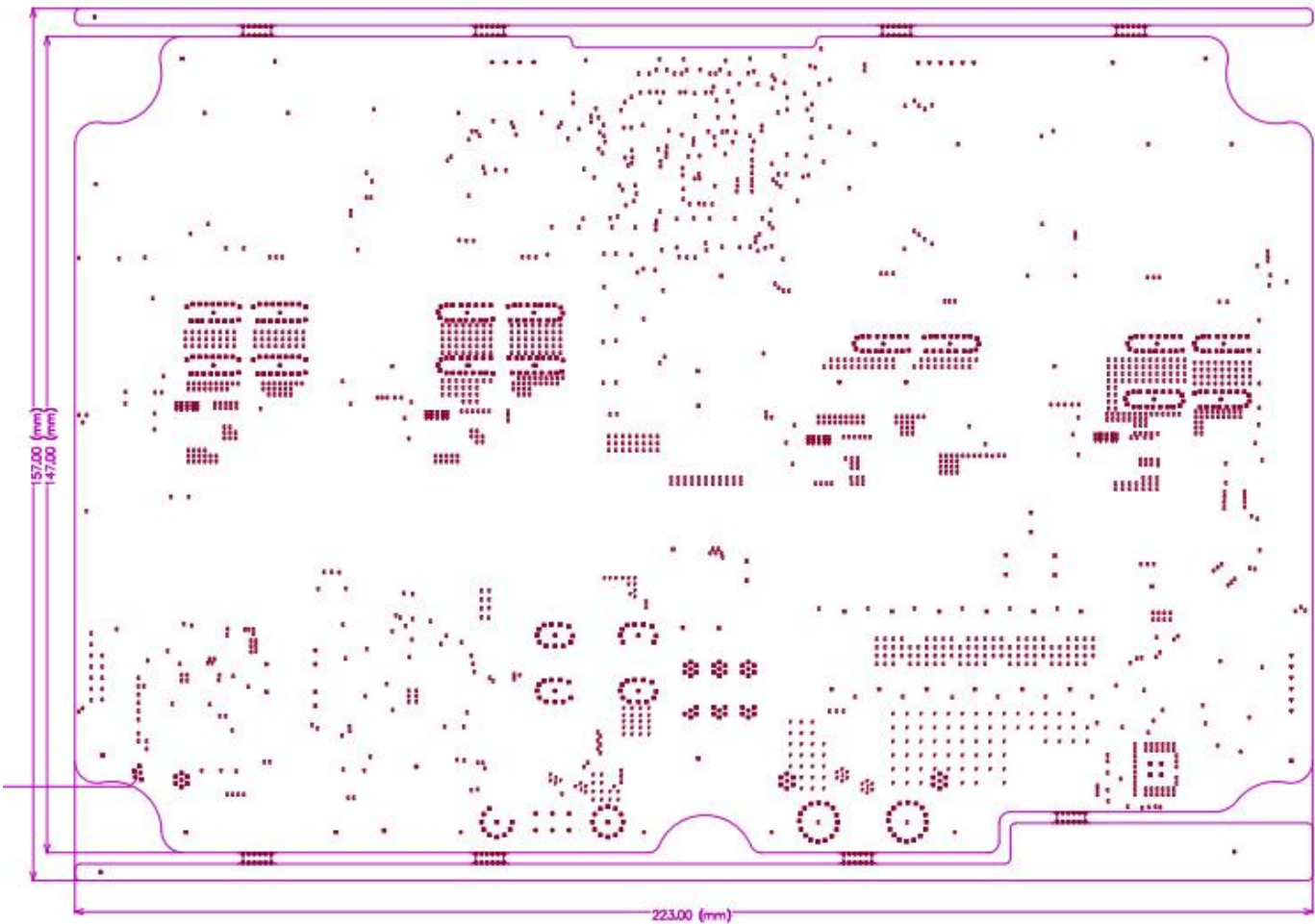


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8

PCB Layout





Bill of Material

Item	Material Name	Specification	Position	Usage	Remarks
1	PCBA	PCBA -OC -FT307 -800W -V1.1.0			
2	ceramic capacitor	Ceramic capacitor -NPO-470 pF- $\pm 5\%$ - 200V-0603 -SMD-National / HEC - CC 0603JRNPOABN 471/ C 0603N 471J 201T -- $55^{\circ}\text{C} \sim 125^{\circ}\text{C}$	C166, C167	2	SMD
3	ceramic capacitor	Ceramic Capacitor -X 7R-2.2 nF- $\pm 10\%$ - 50V-0603 -SMD-National / Samsung / HEC -CC 0603KRX 7R 9BB 222/ CL 10B 222KB 8NN NC /C 0603X 222K 050T	C 177, C179, C334, C 335, C336, C337	6	SMD
4	thick-film resistor	Thick film resistance -5.6 K Ω - $\pm 1\%$ -1 / 10W-0603-SMD-thick sound- 0603WAF5601T5E / Wangquan -RTT 035601FTP / Giant-RC 0603FR-075K 6L	R45, R52, R82	3	SMD
5	thick-film resistor	Thick film resistance -4.7 Ω - $\pm 1\%$ -1 / 4W-1206-SMD-Wangquan - RTT064R70FTP / thick sound 1206W 4F 470KT5E / Giant-RC1206FR -074R7L	R15, R16, R25, R26, R32, R33, R41, R42, R50, R51, R54, R55	12	SMD
6	thick-film resistor	Thick film resistance -10 Ω - $\pm 1\%$ -1 / 10W-0603-SMD-thick sound- 0603WAF100JT5E / WangQuan -RTT 0310R 0FTP / Guoju -RC 0603FR-0710 RL	R31, R34	2	S MD
7	Y 2 capacitance	Y2 Capitanace -10 nF- $\pm 20\%$ -300 Vac -P =7.5mm -14.5 * 5mm (MAX) -DIP-TDK - CS 45 -F 2GA 103M-VKA-tape	CY1, CY2, CY9	3	DIP
8	The WiFi / Bluetooth module	WiFi / Bluetooth Module -3 -3.6V- 13.2*12.5*2.4mm -SMD-Lexin -ESP32 - C3 -MINI-1U-H4 - External Antenna 105°C version	U401	1	S MD

EcoFlow Inc.	Type: EF-FC-301-1 Information Document No.: EF-FC-301-1-00
	Date: 2024-3-26
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9	level switch	Level conversion -1 -level conversion - 1.65 ~5.5V-40℃ -85℃ -150℃ -SOT23 -6- SMD-TI-SN 74LVC 1T 45DBVR-three - state output	U400	1	S MD
10	ceramic capacitor	Ceramic Capacitor -X7R-1 uF- ± 10% - 25V-0603-SMD National / Samsung - CC 0603KRX 7R 8BB 105/CL10B105KA8NNNC- -55~125℃	C43, C46,C50, C78, C82,C86, C141, C213, C309, C310, C416	11	S MD
11	thick-film resistor	Thick film resistance -10 Ω - ± 1% -1 / 16W-0402-SMD-Wang Quan / thick sound / national giant - RTT 0210R 0FTH /0402WGF 100JTCE / RC 0402FR -0710RL	R 403, R 404, R 405	3	S MD
12	ceramic capacitor	Ceramic capacitor -X7R-22 uF- ± 20% - 16V-1206 -SMD-Guoju / Taiji / Murata - CC 1206MKX 7R 7BB 226 / MSASE 31LBB 7226MTNA 01 / GRM 31CZ 71C 226ME 15L- -55 -125 ° C	C 125, C126, C133, C 411, C 412	5	S MD
13	needle file	Needle holder -6 PIN -PH 2.0 -180 degrees - 100V - 2A -UL 94V -2 -DIP - Conry -C 2001VD 10601T 0101PB	J 301, J401	2	DIP
14	Current - sensing amplifier	Current -sensing chip - 2 . 7 -36 V - 50V / V - 100 uA -SC 70 -SMD -3 PEAK -TP 181A 1	U 5	1	S MD
15	thick-film resistor	Thick film resistance -100 Ω - ± 1% -1 / 10W-0603-SMD-thick sound- 0603WAF1000T5E / Wangquan RTT 031000FTP / National giant - RC0603FR-07100 RL	R 77, R 350, R 351, R 357, R 358, R 359, R 360	7	S MD

16	ceramic capacitor	Ceramic Capacitor -X7R-10 nF- $\pm 10\%$ - 100V-0603-SMD-Samsung / National / HEC - CL 10B 103KC 8NNNC /CC 0603KRX7R0BB103/C0603X103K101T	C 31, C 32, C33, C 231, C233, C235, C239	7	S MD
17	ceramic capacitor	Ceramic Capacitor -X7R-1 nF- $\pm 10\%$ - 50V-0402-SMD-Samsung / National / H E C- CL 05B 102KB 5NNNC /CC 0402KRX7R9BB102/C0402X102K050T	C 101, C102, C124, C 128, C404, C405, C 406, C 417	8	S MD
18	ceramic capacitor	Ceramic Capacitance -X 7R-10 μ F- $\pm 10\%$ -50V-1206-SMD National - CC1206KKX7R9BB106 / Samsung CL 31B 106KBHNNNE-55 ~125 °C t	C 10, C 11, C18, C 23, C 24, C25, C 26, C 38, C88, C 95, C 99, C106, C 107, C108, C110, C 111, C129, C130, C 139, C156, C158, C 163, C164, C165, C 215, C216, C217, C 218, C219, C220, C 226, C227, C229, C 320, C 321	35	S MD
19	Zener diode	Stator Diode -5 . 1V -500 mW -0 .9 -2 μ A- -55 + 150°C -SOD -123 -SMD - LRC - L BZT 52C 5V 1T 1G	D 5	1	S MD
20	PCB	PCB-OC-FT 307 -800W-V1.1.0 -4L-2 / 2 / 2 / 2 OZ-223*147*2.4mm -FR 4 -lead-free tin injection -green oil white word-1P		1	S MD

21	thick-film resistor	Thick film resistance -1 K Ω - $\pm$ 1% -1 / 10W-0603-SMD-thick sound- 0603WAF1001T5E / Wangquan -RTT 031001FTP / Guoju -RC 0603FR-071 KL	R 35, R 119, R 345, R 422	4	S MD
22	N -MOSFET	N -MOSFET -80V -157A@25°C -2.7V - 3.8m Ω -SON8 -SMD -TI - CSD19502Q5B -Qrr 275nC ,Trr 72ns	Q 19, Q20	2	S MD
23	thick-film resistor	Thick film resistance -68 K Ω - $\pm$ 1% -1 / 10W-0603-SMD-thick sound- 0603WAF6802T5E / Wangquan -RTT 036802FTP / Giant-RC 0603FR-0768 KL	R 123, R 124, R 126	3	S MD
24	joggle IC	Interface IC-Non -isolated-CAN Transceiver -Single Channel-4.5 ~5.5V- 5Mbps - -40 - 125 °C-150°C -SOP8 -SMD-Core Micro - NCA 1042B-DSPR-Vbus $\pm$ 70V, Vcm $\pm$ 30V	U 303	1	S MD
25	needle file	.0Needle holder - 1mm -4 PIN - 50V 1A - 6 * 3.9 * 5mm -Vertical-SMD - ET -WF 10004 - 29202	J 200	1	S MD
26	magnetic bead	Magnetic beads - -600 Ω -25% -4A-0.07 Ω -100 MHz -1206-SMD-Wheat Jet - MGLB3216M601T4R0 -LF	L 14, L 15, L 17, L18, L 100, L103	6	S MD
27	switching diode	Switch Diode - 100V - 150 mA - 1 . 25V - 4ns -SOD - 123 -SMD - Pingwei- 1N 4148W	D 104, D 105, D 106	3	S MD
28	N -MOSFET	N-MOSFET-40V-200A-1.1m Ω -PDFN-5 * 6 -SMD-CRMicro -HGQ014N04B-G	Q4, Q5, Q7, Q8, Q 10, Q11, Q13, Q 14, Q15, Q16, Q 17, Q18	12	S MD

29	ceramic capacitor	Ceramic Capacitor -X 7R-4.7 nF- $\pm 10\%$ - 1000V-1206-SMD-National / HEC / Samsung - CC 1206KKX 7RCBB 472/C 1206X 472K 102T /CL 31B 472KIFNNNE	CY 3	1	S MD
30	thick-film resistor	Thick film resistance -51 K Ω - $\pm 1\%$ -1 / 4W-1206 -SMD-thick sound- 1206W4F5102T5E / Wang Quan -RTT 065102FTP / National giant-RC 1206FR -0751 KL	R 91	1	S MD
31	Common mode inductance	Common mode inductor -T 16 * 10 * 7C-R 12K-33 uH $\pm 35\%$ @ 10 kHz, 0.25V - Φ 1.2mm * 3P-2 -2 -24 * 17 * 20mm - DIP-Pangyo -BQ 00T 16 -6202	L 16	1	DIP
32	thick-film resistor	Thick film resistance -10 K Ω - $\pm 1\%$ -1 / 10W-0603-SMD-thick sound- 0603WAF1002T5E / Wangquan -RTT 031002FTP / Giant-RC 0603FR-0710 KL	R 36, R 38, R 361, R 424, R425	5	S MD
33	Y 2 capacitance	Y2 capacitance -4.7 nF- $\pm 20\%$ -300VAC- P =7.5mm -11 * 5mm (MAX) -DIP-TDK - CS 45 -E 2GA 472M-VKA	CY 200	1	DIP
34	thick-film resistor	Thick film resistance -20 K Ω - $\pm 1\%$ -1 / 4W-1206 -SMD-thick sound- 1206W4F2002T5E / Wangquan -RTT 062002FTP / Giant-RC 1206FR-0720 KL	R92, R 93, R 94, R 108, R 109, R 112	6	S MD
35	switching diode	Switch Diode -100V-150 mA-1.25V-4ns - SOD-323 -SMD-Pingwei-1N4148WS	D 7, D 8, D 9, D 10	4	S MD
36	N -MOSFET	N -MOSFET -60V -300mA-20V -2 Ω - 300mW -SOT -23-SMD-LRC-L2N7002S L T 1G	Q 6, Q101, Q400, Q 402	4	S MD
37	ceramic capacitor	Ceramic Capacitor -X7R-220 pF- $\pm 10\%$ - 50V-0603 -SMD-Samsung / National / HEC - CL 10B 221KB 8NNNC /CC 0603KRX 7R 9BB 221/C 0603X 221K 050T	C 21, C22, C97, C98	4	S MD

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38	Passive crystal vibration	Passive crystal vibration -20 MHz - ± 10ppm -12 pF- -40 -105℃ -SX-3225 -SMD-Thai-SX 32Y 020000BC 1T 001	Y 300	1	S MD
39	needle file	Needle holder - 10 - 100 Vdc / 30A -44 . 15 * 39 * 21mm - DIP -Xinhai- DC connector board end socket	J 1	1	DIP
40	thick-film resistor	Thick film resistance -100K Ω - ± -1% -1 / 16W-0402-SMD-WangQuan - RC0402FR-07100 KL / thick sound- 0402WGF 1003TCE / National- RC0402FR- 07100 KL	R 103, R 111, R 122	3	S MD
41	gallium nitride	Gallium nitride -80V -35A - 12V -4 .4m Ω - SMD -VQFN (16) -TI -LMG 2100R 044	U 2, U 10, U11,U12	4	S MD
42	drive IC	Drive IC-isolation -single channel-10 - 33V-pull 4.5A / fill 5.3A-8V-40 -150℃ - 150℃ -SOIC -6 -SMD-TI-UCC 23513BDWYR	U 6	1	S MD
43	Common mode inductance	Co - mode inductance - 2400 / @ 100 MHz -3 . 2* 2 .3* 2 . 5mm -SMD - cluo - AMCW 3225P - 2 -242TS 01	L 13, L302	2	S MD
44	ceramic capacitor	Ceramic Capacitor -X7R-100 nF- ± 10% - 50V-0402-SMD National / Samsung / HEC-CC 0402KRX 7R 9BB 104 / CL 05B 104KB 5NNNC / C 0402X 104K 050T-55 ~125 °C	C1, C 40, C47, C51, C53, C55, C56, C57, C58, C91,C109, C121, C127, C131, C189, C214,C240, C303,C312, C313,C314, C315, C318, C323, C324, C 325, C327, C328, C 329, C330, C400, C 401, C402, C403,C408, C409,C413	37	S MD

45	thick-film resistor	Thick film resistance -2 .2 Ω - $\pm$ 5% -1 / 2W - 1206 -SMD - National Giant -SR 1206JR -7W 2R 2L -surge resistance series	R 95, R 97, R 98, R99	4	S MD
46	thick-film resistor	Thick film resistance -10K Ω - $\pm$ - -1% -1 / 16W-0402-SMD - WangQuan -RTT021002FTH / thick sound 0402WGF 1002TCE / Giant - RC 0402FR-0710 KL	R19, R 20, R 53, R 69, R 73, R 127, R 342, R 344, R 346, R 348, R 406, R 408	12	S MD
47	thick-film resistor	Thick film resistance -0 Ω - $\pm$ 1% -1 / 10W-0603-SMD-thick sound- 0603WAF0000T5E / Wangquan RTT 030000FTP / Giant-RC0603FR- 070 RL	R 134, R 136, R 324, R 325, R 326, R 327, R 328, R 330, R 334, R 336	10	S MD
48	magnetic bead	Magnetic beads -100 MHz -600 Ω -1.2A- 0.25 Ω -SMD-Wheat Jet-MGLB 2012M 601T1R2 -LF	L 102, L 300, L 301, L 400, R 340, R 341	6	S MD
49	thick-film resistor	Thick film resistance -10K Ω - $\pm$ - -1% -1 / 8W-0805 -SMD-WangQuan - RTT051002FTP / thick sound-0805W 8F 1002T 5E / Giant-RC 0805FR- 0710 KL	R 70, R200	2	S MD
50	thick-film resistor	Thick film resistance -5.1 Ω - $\pm$ 1% -1 / 16W-0402-SMD-Wangquan - RTT025R10FTH / thick sound 0402WGF 510KTCE / National giant-RC 0402FR-075R1L	R 1, R 56, R 57, R 58, R 138, R 139, R 140, R 141	8	S MD
51	N -MOSFET	N -MOSFET -100V -140A@25°C -2.6V -4.6m Ω max -SON8 -SMD -TI - CSD19532Q5B - Qrr 249nC ,Trr 80ns	Q 1, Q2, Q3	3	S MD
52	TVS diode	TVS Diode -bidirectional-64V-48.5A- 103V-5000W-SMC-SMD-Yangjie - 5.0SMDJ64CA	D 3	1	S MD

53	ceramic capacitor	Ceramic capacitor -NPO-100 pF- $\pm 5\%$ - 50V-0402-SMD National / Samsung / HEC-CC 0402JRNPO 9BN 101 / CL 05C 101JB 5NNNC / C 0402N 101J 050T-55 $\sim 125^{\circ}\text{C}$	C 44, C 45, C49, C 79, C 83, C87, C 105, C212, C316, C 317, C407, C410, C 418, C 419	14	S MD
54	thermal resistor	Thermistor -10K Ω -B: 3435 -1% -SMD-Bridge -SNC103B23435F0603E	RT 300, RT 301, R T 302, RT 303	4	S MD
55	thin -film resistor	Film resistance -5.1K Ω -0.1% -1 / 10W-0603-SMD-Wangquan - RTX035101BDTP / Guoju -RT 0603BRD 075K 1L	R76, R78, R 79	3	S MD
56	ceramic capacitor	Ceramic Capacitor -X7R-1 nF- $\pm 10\%$ - 50V-0603-SMD-Samsung / National / H E C- CL 10B 102KB 8NNNC /CC 0603KRX7R9BB102/C0603X102K050T	C 48, C 52, C74, C 75, C 138, C151, C 153, C161, C194, C 224, C 333	11	S MD
57	needle file	Needle holder - 16mm -2P - 100V / 80A - 44 . 15 * 40 * 20mm -90 $^{\circ}$ -DIP -Xinhai-DC 2PIN socket	J 2	1	DIP
58	thick-film resistor	Thick film resistance -47 K Ω - $\pm 1\%$ -1 / 10W-0603-SMD-thick sound- 0603WAF4702T5E / Wangquan -RTT 034702FTP / Giant-RC 0603FR-0747 KL	R 17, R 18	2	S MD
59	ceramic capacitor	Ceramic Capacitor -X7R-4.7 nF- $\pm 10\%$ - 50V-0402 -SMD-National / Samsung - CC 0402KRX 7R 9BB 472/ CL 05B 472KB 5NNNC — 55 $\sim 125^{\circ}\text{C}$	C103	1	S MD

60	thick-film resistor	Thick film resistance -20 Ω - $\pm 1\%$ -1 / 8W-0805 -SMD-thick sound- 0805W8F200JT5E / Wangquan -RTT 0520R 0FTP / Giant-RC 0805FR-0720 RL	R27, R28, R 74	3	S MD
61	thick-film resistor	Thick film resistance -100K Ω - $\pm 1\%$ -1 / 10W-0603 -SMD-thick sound- 0603WAF1003T5E / Wangquan -RTT 031003FTP / Giant-RC 0603FR-07100 KL	R 105, R 121, R 423	3	S MD
62	ceramic capacitor	Ceramic Capacitor -X 7R-220 nF- $\pm 10\%$ - 50V-0603 -SMD-Samsung - CL10B224KB8NNNC / National-CC 0603KRX 7R 9BB 224 -55 ~125 $^{\circ}\text{C}$	C 17, C 20, C94, C 96, C 116, C119	6	S MD
63	TVS diode	TVS Diode -Bi-Bi-64V-3.9A-103V-400W- SMA-SMD-LRC-SMAJ 64CA	D 2	1	S MD
64	Low edge drive	Low -edge drive -non -isolated-single channel-4.5 V-18 V-4A / 4A-3.9V-Tj-40 - 140 $^{\circ}\text{C}$ - 150 $^{\circ}\text{C}$ -SOT23 -5 -SMD-TI-UCC 27517DBVR	U3, U 4, U 13	3	S MD
65	thick-film resistor	Thick film resistance -30 K Ω - $\pm 1\%$ -1 / 10W-0603-SMD-thick sound- 0603WAF3002T5E / WangQuan -RTT 033002FTP / Guoju -RC 0603FR-0730 KL	R 115	1	S MD
66	TVS diode	The TVS diode -24V-8A-18.6V-350W-30 pF-SOT23E-SMD-LRC-S-LR2105LT1G	D 300, D301	2	S MD
67	ceramic capacitor	Ceramic Capacitor -X 7R - 2.2 μF - $\pm$ 10% -50V - 0805 -SMD - National Giant / Samsung / HEC -CC 0805KKX 7R 9BB 225 / CL 21B 225KBYNNNE / C 0805X 225K 050T - - 55 ~ 125 $^{\circ}\text{C}$	C 104, C140, C253, C420	4	S MD

68	ceramic capacitor	Ceramic Capacitor -X 7R-100 nF- $\pm 10\%$ - 100V-0603-SMD-HEC-C 0603X 104K 101T / National CC 0603KRX 7R 0BB 104 / Samsung - CL10B104KC8NNNC-55 $\sim 125^{\circ}\text{C}$	C 14, C 15, C16, C 63, C 64, C65, C 67, C 68, C69, C 71, C 72, C73, C 195, C196, C197, C 199, C200, C201, C 203, C204, C205, C 207, C208, C209	24	S MD
69	operational amplifier	Operational amplifier -1 channel-3V to 36V-110 db-0.9 MHz -SOT 23 -5 -SMD-3 PEAK-LM 321A-TR	U 14	1	S MD
70	ceramic capacitor	Ceramic Capacitor -X7R-1 uF- $\pm 10\%$ - 100V-1206 -SMD-HEC / Samsung / National - C 1206X 105K 101T /CL 31B 105KCHNNNE /CC 1206KKX 7R 0BB 105	C 136, C137, C148	3	S MD
71	thick-film resistor	Thick film resistance -3K Ω - $\pm 1\%$ -1 / 4W-1206 -SMD-WangQuan - RTT063001FTP / thick sound- 1206W 4F 3001T 5E / National-RC 1206FR -073 KL	R 44	1	S MD
72	Patch inductance	Patch inductance -1K, 0.3V-120 uH- $\pm 20\%$ -2.3A-0.17 Ω -12.5 * 12.5 * 10mm - SMD-smooth collateral-SWRH 1209B-121MT	L 101	1	S MD

73	ceramic capacitor	Ceramic Capacitor -X 7R-2.2 uF- $\pm 10\%$ - 25V-0805-SMD National / Samsung / HEC - CC 0805KKX 7R 8BB 225/CL 21B225KAFNNNE/C0805X225K025T	C 41, C 42, C76, C 77, C 80, C81, C 84, C 85, C134, C 319, C326, C331	12	S MD
74	thick-film resistor	Thick film resistance -4.7 K Ω - $\pm 1\%$ -1 / 4W-1206 -SMD-thick sound- 1206W4F4701T5E / Wangquan -RTT 064701FTP / Giant-RC 1206FR-074K 7L	R 62, R 66, R 67, R68	4	S MD
75	thick-film resistor	Thick film resistance -20 K Ω - $\pm 1\%$ -1 / 10W-0603-SMD-thick sound- 0603WAF2002T5E / WangQuan -RTT 032002FTP / Guoju -RC 0603FR-0720 KL	R 87	1	S MD
76	piezoresistance	Volstor -82V-135V-1750A-9*3.5mm -P =5mm -DIP-Matsuda - STE 07D 820K 2BA 5FZB 0R 0 -65VDC -105°C	MOV 1, MOV2	2	DIP
77	Ultra-fast recovery diode	ultrafast recovery diode - 2A - 200V -35ns -950 mV -SMA -SMD - Pingwei- ES 2DGA	D 101, D200	2	S MD
78	needle file	Needle holder -4 PIN-PH 2.5 -180 degrees -250V-3A -Nylon 66 / UL 94V-0 - DIP-Conry - C 2501VD10401T0101PC	J 300	1	DIP
79	ceramic capacitor	Ceramic capacitor -X7R-10 nF- $\pm 10\%$ - 50V-0603-SMD China / Samsung / China / HEC-CS 0603KRX 7R 9BB 103 / CL 10B103KB8NNNC / CC0603KRX7R9BB103 / C0603X103K050T	C 193, C221, C421, C255	4	S MD

80	electrolytic capacitor	Electrolytic capacitance -56 uF- $\pm 20\%$ - 63V-105°C -5000h-P =3.5mm -2.1A (100 kHz) - 8*11.5mm -DIP-Jianghai-PHR 1JLA 560MBALL 35WP-solid-liquid mixture	C 2, C3, C4, C5	4	DIP
81	thick-film resistor	Thick film resistance -5.1 K Ω - $\pm 1\%$ -1 / 16W-0402-SMD / thick sound / sound-RC0402FR075K 1L / 0402WGF 5101TCE / RTT025101FTH	R 114, R 300, R 301, R 302, R 303, R 305, R 306, R 309, R 310, R 311, R 312, R 313, R 314, R 315, R 316, R 317, R 318, R 319, R 320, R 321, R 322, R 323, R 329, R 331, R 332, R 333, R 343, R 347, R 356, R 362, R 363, R 400, R 407, R 409, R 412, R 413, R 417	37	S MD
82	thick-film resistor	Thick film resistance -24 K Ω - $\pm -1\%$ -1 / 10W-0603-SMD-thick sound-0603WAF2402T5E / Wangquan -RTT 032402FTP / Guoju -RC 0603FR-0724 KL	R 110, R128	2	S MD
83	M CU	MCU -3.3V -120MHz -32Bit -DSP - 69KB -384KB - -40°C ~125°C - -40°C ~150°C - LQFP 100 -SMD -TI -F 280039CSPZR	U 300	1	S MD
84	thick-film resistor	Thick film resistance -510K Ω - $\pm 1\%$ -1 / 4W-1206-SMD-Wangquan - RTT065103FTP / thick sound-1206W 4F 5103T 5E / Giant-RC 1206FR-07510 KL	R 106	1	S MD

85	thick-film resistor	Thick film resistance -62 Ω - $\pm 1\%$ -1 / 4W-1206 -SMD-thick sound / Guo / Wang Quan - 1206W 4F 620JT 5E / RC 1206FR -7W 7K 5L / RTT 067501FTP	R 352, R355	2	S MD
86	thick-film resistor	Thick film resistance -1 K Ω - $\pm 1\%$ -1 / 16W-0402-SMD-thick sound- 0402WGF1001TCE / Wangquan -RTT 021502FTH / National giant-RC 0402FR -071 KL	R 125	1	S MD
87	electrolytic capacitor	Electrolytic capacitance -1800 μ F- -10% / + 30% -63V-125 $^{\circ}$ C -5000h-20 * 43mm -DIP-Jianghai-ECA 1JVF 182QLL 200043S	C 12	1	DIP
88	P -MOSFET	P -MOSFET - -60V - -3.9A -1.2V ~2.5V -200m Ω -SOT -23 -3L -SMD -Din -Tek - DTS6401 - D	Q 12, Q100, Q401	3	S MD
89	high frequency transformer	High frequency Transformer -EE 13 - PC95 -10 μ H $\pm 10\%$ -14:14:7Ts-15 * 14.5 * 16mm -DIP-Pangyo -BQ 0EE 13 -5357 -A	T 100	1	DIP
90	ceramic capacitor	Ceramic Capacitor -X7R-100 nF- $\pm 10\%$ - 50V-0603-SMD-Samsung / National / HEC - CL 10B 104KB 8NNNC /CC 0603KRX7R9BB104/C0603X104K050T	C 117, C160, C222, C 223, C225, C243, C244	7	S MD
91	L ED	LED-RGB-R / G / B (max): 360:900:224 mcd-19 mA-4.5*1.6*1.7mm -SMD- Guangbao - LTST-416CEGBW-Side light band drive IC	L ED 400, LED 401, LE D 402, LED 403	4	S MD

92	thick-film resistor	Thick film resistance -51K Ω - $\pm 1\%$ -1 / 10W-0603-SMD-thick sound-0603WAF5102T5E / Wangquan RTT 035102FTP / Giant-RC0603FR-0751 KL	R 2, R 37, R 40, R 43, R48, R 49, R 80, R 81, R 86, R 104, R 113	11	S MD
93	ceramic capacitor	Ceramic Capacitor -NPO-12 pF- $\pm 5\%$ - 50V-0402 -SMD-Samsung / National / HEC-CL 05C 120JB 5NNNC / CC 0402JRNPO 9BN 120 / C 0402N 120J 050T-55 $\sim 125^{\circ}\text{C}$	C 122, C300, C301	3	S MD
94	thick-film resistor	Thick film resistance -20 Ω - $\pm 1\%$ -1 / 10W-0603-SMD-thick sound-0603WAF200JT5E / WangQuan -RTT 0320R 0FTP / Guoju -RC 0603FR-0720 RL	R 3, R 8, R 59, R 60, R 61, R 63, R 64, R65	8	S MD
95	ceramic capacitor	Ceramic Capacitance -NPO-1 nF- $\pm 5\%$ - 100V-0603-SMD National / H E C- C C 0603JRNPO 0BN 102/C 0603N 102J 101T - $-55^{\circ} \sim 125^{\circ}\text{C}$	C 150, C245, C246, C 247, C171, C183, C 185, C187, C230, C 232, C234, C238	12	S MD
96	Buc k Converter	Buck Converter -3.8V-30V-0.8 $\sim 22\text{V}$, 3A-0.8V-200 K $\sim 2.2\text{ MHZ}$ -Tj-40 $\sim 150^{\circ}\text{C}$ -150 $^{\circ}\text{C}$ -SOT-583 -SMD-TI-TPS62933FDRL R-Synchronization	U 101	1	S MD
97	ceramic capacitor	Ceramic Capacitance -X7R-10 μF - $\pm 10\%$ -16V-0805 -SMD-Samsung - CL21B106KOQNNNE- $-55 \sim 125^{\circ}\text{C}$	C 19, C 59, C60, C 61, C 305, C308	6	S MD

98	ceramic capacitor	Ceramic Capacitor -X 7R-2.2 uF- $\pm 10\%$ - 100V-1206-SMD-HEC-C 1206X 225K101T / National CC 1206KKX 7R 0BB 225 / Samsung-CL 31B 225KCHSNNE-55 $\sim 125^{\circ}\text{C}$	C 6, C 7, C 8, C 9, C 13, C 27, C 28, C 29, C 30, C 35, C 36, C 37, C 62, C 66, C 70, C 112, C 113, C 114, C 115, C 228	20	S MD
99	needle file	Needle holder -1.0mm -5P-50V / 1A- 7.0*3.9*5.0mm -Stand-SMD-um - WF10005 -29202 - buckle	J 400	1	S MD
100	thick-film resistor	Thick film resistance -120 Ω - $\pm 1\%$ -1 / 4W-1206-SMD-Wangquan - RTT061200FTP / thick sound-1206W 4F 1200T 5E / Giant-RC 1206FR-07120 RL	R 116, R 117, R 118, R 203	4	S MD
101	thick-film resistor	Thick film resistance -240 Ω - $\pm 1\%$ -1 / 4W-1206-SMD / thick sound / sound-RC1206FR07240RL / 1206W4F2400T5E / RTT062400FTP	R5, R 6, R 7, R 9, R10, R 11, R 12, R13, R 14, R 21, R 22, R 23	12	S MD
102	ceramic capacitor	Ceramic capacitance -NPO-12 pF- $\pm 5\%$ - 100V-0603-SMD giant - CC0603JRNPO0BN120 - -55 $\sim 125^{\circ}\text{C}$	C 159, C173, C175, C 176, C190, C191, C 192, C198, C202, C 206, C210, C248	12	S MD

103	Ultra -fast recovery diode	ultrafast recovery diode - 200V - 1A -0 . 95V -5 .0 uA -35ns - -55 - 150℃ -SOD 123FL -SMD - LRC - SODSF 14 -SH	D11, D 12, D 13, D 107, D108	5	S MD
104	ceramic capacitor	Ceramic Capacitor -X7R-10 nF- ± 10% - 50V-0402 -SMD-Samsung / National / HEC - CL 05B 103KB 5NNNC /CC 0402KRX 7R 9BB 103/C 0402X 103K 050T	C 34, C 39, C54, C 123, C211, C332	6	S MD
105	Zener diode	Pressure diode -15V-200 mW-SOD-323- SMD-LRC-LM3Z15VT1G	D 17, D103	2	S MD
106	thick-film resistor	Thick film resistance -20 Ω - ± 1% -1 / 4W-1206 -SMD-WangQuan - RTT0620R0FTP / thick sound- 1206W 4F 200JT 5E / National-RC 1206FR -0720 RL	R 96	1	S MD
107	L ED	LED -Top View -35 mcd @ 2 mA -Green -0603 -SMD -Wan run - MS - PTV 1608SGC	LED300	1	S MD
108	ceramic capacitor	Ceramic Capacitor -X7R-2.2 nF- ± 10% - 100V-0603 -SMD-National / Samsung - CC 0603KRX 7R 0BB 222/ CL 10B 222KC 8NNNC	C 169, C174, C306	3	S MD
109	PFC inductance	PFC Inductor -POT 40 / 20 -PC 96 -45 uH-0.6 * 8mm * 15Ts -43.5 * 42 * 20mm - DIP -Banqiao -BQPOT 40 -5298 -Vertical-A	L 1, L 3, L 4, L 5, L6, L10, L11, L12	8	DIP
110	ceramic capacitor	Ceramic Capacitor -NPO-100 pF- ± 5% - 50V-0603 -SMD-Samsung / National / HEC - CL 10C 101JB 8NNNC /CC 0603JRNPO 9BN 101/C 0603N 101J 050T	C 92, C 93, C120, C 152, C154, C155	6	S MD

111	thick-film resistor	Thick film resistance -3.3 Ω - $\pm$ -1% -1 / 4W-1206 -SMD-thick sound- 1206W4F330KT5E / Wangquan -RTT 063R 30FTP / Guoju -RC 1206FR-073R 3L	R 133, R135	2	S MD
112	current sensor	Current sensor -3 ~3.6V- $\pm$ 30A- -40 ~125°C -SOIC8 -SMD-Na Core Micro - NSM2012 - 30B3R-DSPR-3000 Vrms	U 1, U 7, U 8, U9	4	S MD
113	alloy resistance	Alloy resistance -1m Ω -1% -3W-2512- SMD KKJ-PA2512FKE7T0R001E	R 24	1	S MD
114	ceramic capacitor	Ceramic Capacitor -NPO-10 pF- $\pm$ 5% - 50V-0402-SMD National / Samsung / HEC - CC 0402JRNPO 9BN 100/CL05C100JB5NNNC/C0402N100J05 0T	C 89, C 90, C142, C 143, C144, C145, C 146, C 147	8	S MD
115	thick-film resistor	Thick film resistance -100 Ω - $\pm$ 1% -1 / 16W-0402-SMD-thick sound- 0402WGF1000TCE / Wangquan RTT 021000FTH / National giant - RC0402FR-07100 RL	R29, R 30, R 46, R 47, R 75, R 335, R 337, R 338, R 339, R 353, R 354, R 401, R 402, R 410, R 411, R 414, R 415, R 416	18	S MD
116	thick-film resistor	Thick film resistance -51 Ω - $\pm$ 1% -1 / 10W-0603-SMD-Guoju / WangQuan / thick sound-R C 0603FR- 0751 RL / RTT 0351R 0FTP / 0603WAF 510JT 5E	R4, R 39	2	S MD
117	Buc k Converter	Buck Converter -6 -100 V-100 Vmax , 0.5A-1.2V-1MHzmax -Tj-40 -150°C -150°C -SOIC- 8 -SMD-TI-LM 5163DDAR-Support 100% duty cycle, synchronization	U 100	1	S MD

118	thick-film resistor	Thick film resistance -0 Ω - $\pm 1\%$ -1 / 4W-1206 -SMD-thick sound-1206W4F0000T5E / Wang Quan -RTT 060000FTP / National giant-RC 1206FR-070 RL	R 107, R130	2	S MD
119	film capacitor	Thin Film Capacitor -10 μ F- $\pm 5\%$ -500V-P =27.5mm -31 * 14 * 25mm -DIP-Santa -C 3D 106J 2HF 3R 8000	C242	1	DIP
120	Fixed glue	Silicone -Single component -White -WF -JD -705 -2600 mL / branch		0.008	
121	ceramic capacitor	Ceramic Capacitor -X 7R-100 nF- $\pm 10\%$ -100V-1206 -SMD-Murata -GRM 319R72A104KA01D / Samsung-CL 31B 104KCFNNNE / HEC-C 1206X 104K 101T / National-CC 1206KKX 7R 0BB 104 -55 $\sim 125^{\circ}\text{C}$	C 157, C 259	2	S MD
122	silicone pad	Silicone pad-OC-FT 307 -Silicone -20*10*3.5 -Black-UL94 V-0	For C242	1	
123	DC / PV socket for foam	DC / PV socket foam - HS -WN 511 -foam - Black- Back glue 3M	For J1, J2	2	
124	magnetic bead	Magnetic beads -100 MHz -24 Ω min -DIP-Haohuake -N7B 3.5 * 2 * 1.8	For the selected proteins of CY 2, CY 9, C Y 1, CY 200	8	DIP
125	L DO	LDO -2.4 $\sim 18\text{V}$ -5V - $\pm 1.25\%$ -200mA - -40 $\sim 125^{\circ}\text{C}$ -150 $^{\circ}\text{C}$ -SOT23 -5 -SMD -TI - TPS 7A 2450DBVR	U 102	1	S MD

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126	L DO	LDO -2. 5V - 20V - 5V - ± 1% -300 mA - -40℃ ~ + 125℃ -150℃ -SOT -23 - 5 - SMD - Saint -State Micro -SGM 2210 - 5. 0XN 5G / TR -alternative Backup 1002060047 TPS 7A 2450DBVR		1	S MD
127	Three defense paint	Three -proof paint-Xinyou -UV3342LV- 250-PC BA-1 KG		0.006	
128	Three defense paint	Heaven return paint-3612-PCBA-1 KG		0.006	



⁽¹⁾ Strike out what does not apply.