



Repubblica di San Marino
Autorità per l'Omologazione
Republic of San Marino
Authority for Homologation

Via III Settembre, 99
47891 Dogana - Repubblica di San Marino

Comunicazione
Communication

	Concernente ^{2/} Concerning ^{2/}	Il rilascio dell'omologazione Approval granted L'estensione dell'omologazione Approval extended Il rifiuto dell'omologazione Approval refused La revoca dell'omologazione Approval withdrawn La cessazione definitiva della produzione Production definitively discontinued
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of a type of ~~electrical~~/electronic sub-assembly ⁽²⁾ with regard to Regulation no. 10.

Omologazione N. Approval No.	E57*10R06/03*1873	Estensione N. Extension No.	00
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Marchio di omologazione Approval mark	 10R-06 1873
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1. Make (trade name of manufacturer):



2. Type and general commercial description(s):

Type: RBT12120LFP-SBH
general commercial description(s):
Renogy 12V 120Ah Solid State LiFePO4 Lithium Battery Pro

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

Approval mark

- 3.1 Location of that marking: See information document
4. Category of vehicle: N/A
5. Name and address of manufacturer: Enerblok Co., Ltd.
98 Huicheng Road, Changan Street, Huishan District, Wuxi
City, Jiangsu Province, China
6. In the case of components and separate technical units, location and method of affixing of the approval mark: See information document
7. Address(es) of assembly plant(s): Enerblok Co., Ltd.
98 Huicheng Road, Changan Street, Huishan District, Wuxi
City, Jiangsu Province, China
8. Additional information (where applicable): See appendix below
9. Technical Service responsible for carrying out the tests: AUTOMOTIVE TECHNICAL SERVICE S.r.l.
Via Consiglio dei Sessanta, 99
47891-DOGANA - Repubblica di San Marino
10. Date of test report: 29/10/2025
11. No. of test report: ATS-SM-IR-10-27460
12. Remarks (if any): See appendix below
13. Place: Dogana – Repubblica di San Marino
14. Date: 21/11/2025
15. Signature: 

Ing. Marco Conti
Direttore Generale
General Director
16. The index to the information package lodged with the Approval Authority, which may be obtained on request, is attached.
17. Reasons for extension: Not Applicable

(2) Strike out what does not apply.

Appendix to type-approval communication form No. E57*10R06/03*1873*00
concerning the type-approval of an ~~electrical~~/electronic sub-assembly
under Regulation No. 10

1. Additional information:

- 1.1. Electrical system rated voltage: DC 12V. ~~pos~~/neg ground⁽²⁾
- 1.2. This ESA can be used on any vehicle type with the following restrictions: None
- 1.2.1. Installation conditions, if any: None
- 1.3. This ESA can be used only on the following vehicle type: Not Applicable
- 1.3.1. Installation conditions, if any: Not Applicable
- 1.4. The specific test method(s) used and the frequency ranges covered to determine immunity were: (Please specify precise method used from Annex 9): 20-2000MHz
- 1.5. Laboratory accredited to ISO 17025 and recognised by the Approval Authority responsible for carrying out the tests: Not Applicable

2. Remarks: None

(2) *Strike out what does not apply.*

LIBERTAS

REPUBBLICA
DI SAN MARINO

Allegato <i>Enclosure</i>				
Al certificato di omologazione ECE N. <i>To ECE approval certificate No.</i>		E57*10R06/03*1873*00		
Indice del fascicolo di omologazione <i>Index to the information package</i>				
Data <i>Date of issue</i>		21/11/2025	Data ultima modifica <i>Last amendment date</i>	--
1.	Clausole di garanzia e istruzioni sul diritto di presentare ricorso <i>Collateral clauses and instruction on right to appeal</i>			
2.	Rapporto(i) Finale di Ispezione No. <i>Test report(s) No.</i>	ATS-SM-IR-10-27460	Data <i>Date</i>	29/10/2025
3.	Scheda informativa N. <i>Information document No.</i>	RBT12120LFP-SBH-00	Data <i>Date</i>	22/10/2025
			Data ultima modifica <i>Last amendment date</i>	--



Clausole di garanzia e istruzioni sul diritto di presentare ricorso

Clausole di garanzia

La produzione in serie deve essere esattamente conforme ai documenti di omologazione. Le variazioni di produzione in serie sono consentite solo con il consenso espresso dell'**Autorità per l'Omologazione**.

Le variazioni del nome della società, l'indirizzo e lo stabilimento di produzione, nonché una delle parti che hanno l'autorità alla consegna o eventuali rappresentanti nominati al momento del rilascio dell'omologazione, devono essere immediatamente comunicate all'**Autorità per l'Omologazione**. La violazione di queste regole può portare al ritiro dell'omologazione ed inoltre può essere legalmente perseguita.

L'omologazione decade se viene restituita o ritirata o se il tipo omologato non è più conforme ai requisiti di legge. La revoca può essere fatta se non esistono più i requisiti richiesti per il rilascio e la continuazione dell'omologazione, se il titolare dell'omologazione viola gli obblighi dettati dall'omologazione, anche nel caso in cui gli obblighi derivino dalle condizioni assegnate all'interno dell'omologazione, o se è accertato che il tipo approvato non è conforme ai requisiti di sicurezza del traffico e di tutela dell'ambiente.

L'**Autorità per l'Omologazione** può verificare la corretta applicazione della delega conferita rilasciata nella presente omologazione, in qualsiasi momento. In particolare, questo include la verifica della produzione, che sia conforme, nonché le misure di controllo di conformità della produzione. Per questo, possono essere presi dei campioni dalla produzione. I dipendenti o rappresentanti dell'**Autorità per l'Omologazione** possono avere accesso senza ostacoli agli impianti di produzione e stoccaggio.

La delega conferita contenuta nella presente omologazione non è trasferibile. I diritti del marchio di terzi non sono interessati da questa omologazione.

Istruzione su diritto di ricorso

Questa omologazione è appellabile entro un mese dalla notifica. Il ricorso deve essere presentato per iscritto o come una domanda inviata all'**Autorità per l'Omologazione** - Via III Settembre, 99 - 47891 Dogana - Repubblica di San Marino.

Collateral clauses and instruction on right to appeal

Collateral clauses

*The individual production of serial fabrication must be in exact accordance with the approval documents. Changes in the individual production are only allowed with express consent of the **Authority for Homologation**.*

*Changes in the name of the company, the address and the manufacturing plant as well as one of the parties given the authority to delivery or authorized representative named when the approval was granted is to be immediately disclosed to the **Authority for Homologation**. Breach of this regulation can lead to recall of the approval and moreover can be legally prosecuted.*

The approval expires if it is returned or withdrawn or if the type approved no longer complies with the legal requirements. The revocation can be made if the demanded requirements for issuance and the continuance of the approval no longer exist, if the holder of the approval violates the duties involved in the approval, also to the extent that they result from the assigned conditions to this approval, or if it is determined that the approved type does not comply with the requirements of traffic safety or environmental protection.

*The **Authority for Homologation** may check the proper exercise of the conferred authority taken from this approval at any time. In particular this means the compliant production as well as the measures for conformity of production. For this purpose samples can be taken or have taken. The employees or the representatives of the **Authority for Homologation** may get unhindered access to the production and storage facilities.*

The conferred authority contained with issuance of this approval is not transferable. Trade mark rights of third parties are not affected with this approval.

Instruction on right to appeal

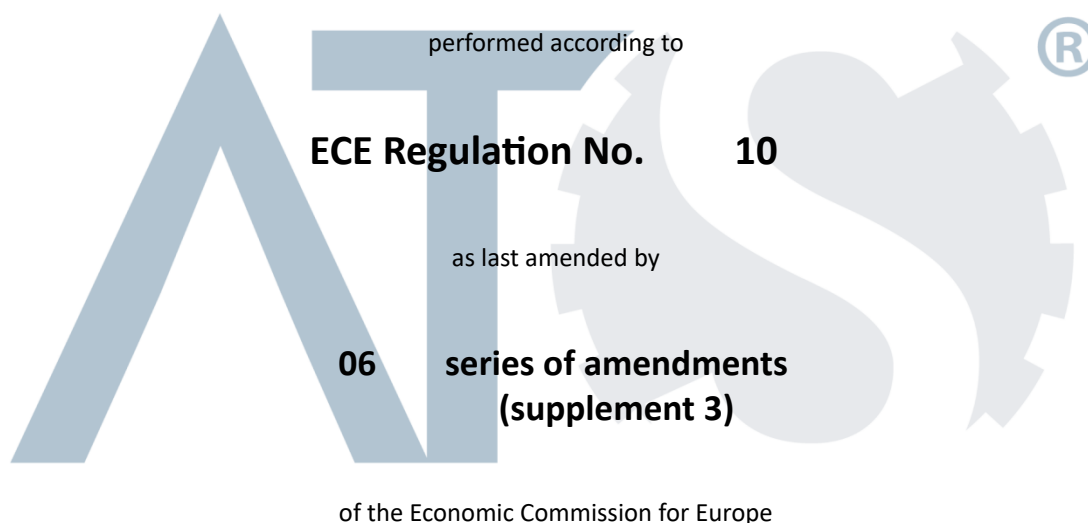
*This approval can be appealed within one month after notification. The appeal is to be filed in writing or as a transcript at the **Authority for Homologation** – Via III Settembre, 99 - 47891 Dogana - Repubblica di San Marino.*

Inspection Report

No. ATS-SM-IR-10-27460

Inspection concerning vehicles / components with regard to:

**Uniform provisions concerning
Electromagnetic Compatibility (EMC)
for M, N, O, L vehicle categories**



Approval status	
ECE	Number of approval
	E57*10R06/03*1873*00

Of: 29/10/2025

Type: RBT12120LFP-SBH

Manufacturer: Enerblok Co., Ltd.

0. General information

0.1. Make (trade name of manufacturer):



0.2. Type:

RBT12120LFP-SBH

0.2.1. Variant(s):

N/A

0.3. Name and address of manufacturer:

Enerblok Co., Ltd.
98 Huicheng Road, Changan Street, Huishan District,
Wuxi City, Jiangsu Province, China

0.3.1 Name and address of manufacturer's authorized representative:

N/A

0.3.2. Production plant(s) address(es):

nerblok Co., Ltd.
98 Huicheng Road, Changan Street, Huishan District,
Wuxi City, Jiangsu Province, China

0.4. Information document:

No: RBT12120LFP-SBH-00

Date of issue: 22/10/2025

Date of last change: --

0.5. Position of the approval mark:

See Drawings of the ESA

0.6 Vehicle category(ies)

N/A

(or, if not applicable, vehicle categories which the
component(s) is (are) suitable for):

M

0.7 Reason(s) for extension of approval

N/A

Of: 29/10/2025

Type: RBT12120LFP-SBH

Manufacturer: Enerblok Co., Ltd.

1. Tested object(s)

1.1 Worst case configuration:
(justification of the determination) Single specification
Mode Charging and Discharging were tested.

1.2 Description: ~~Vehicle~~ / Object

1.2.1 Make:



1.2.2. Manufacturer:

Enerblok Co., Ltd.

1.2.3. Type / Variant

RBT12120LFP-SBH

1.2.4. ~~Vehicle VIN number~~ / component identification:

1.2.4.1 Place of marking:

See information document

1.2.5. Main characteristics

See information document

1.3 Remarks

2. Test records

2.1 Conformity with the information document

SI /
YES

NO

NR /
NA

2.2 Testing conditions

2.2.1 Broadband electromagnetic interference generated by ESAs

2.2.1.1 Method of measurement:

Measured by the method described in Annex 7 of ECE Regulation No. 10.

2.2.1.2 Results:

Conform / ~~Not Conform~~
(Test data see Appendix 2)

2.2.2. Narrowband electromagnetic interference generated by ESAs

2.2.2.1. Method of measurement:

Measured by the method described in Annex 8 of ECE Regulation No. 10.

2.2.2.2. Results:

Conform / ~~Not Conform~~
(Test data see Appendix 2)

2.2.3 Immunity of ESAs to electromagnetic radiation:

2.2.3.1. Method of measurement:

Measured by the method described in Annex 9 of ECE Regulation No. 10.

2.2.3.2. Performance criteria:

ECE Regulation No. 10.

2.2.3.3. Results:

Conform / ~~Not Conform~~
(Test data see Appendix 2)

2.2.4. Immunity of ESAs to transient disturbances

2.2.4.1. Method of measurement:

Measured by the method described in Annex 10 of ECE Regulation No. 10.

2.2.4.2. Results:

Conform / ~~Not Conform~~
(Test data see Appendix 2)

Of: 29/10/2025

Type: RBT12120LFP-SBH

Manufacturer: Enerblok Co., Ltd.

2.2.5. Emission of transient conducted disturbances
generated by ESAs

2.2.5.1. Method of measurement:

Measured by the method described in Annex 10 of ECE
Regulation No. 10.

2.2.5.2. Results:

Conform / ~~Not Conform~~
(Test data see Annex 2)

2.3 Equipment for measuring and testing:

See Appendix 4



Of: 29/10/2025

Type: RBT12120LFP-SBH

Manufacturer: Enerblok Co., Ltd.

3. Other information

Place of inspection: GuangZhou ShunTai Quality Technical Service Co., Ltd.
Room 206A, 2F,4# Plant, No.63 Punan Road, Huangpu District.
Guangzhou. China. 510760

Date of inspection: 22/10/2025

	Senior Inspector	Junior Inspector (if applicable)
Technical service representative:	Lily Li	N/A

Manufacturer's representative: N/A

Remarks: None

3.1 Appendix

- | | |
|--------------------------------|--------------------|
| 1. List of modifications | See the Appendix 1 |
| 2. Test Data | See the Appendix 2 |
| 3. Sample Photo(s) | See the Appendix 3 |
| 4. List of main test equipment | See the Appendix 4 |

3.2 Enclosures

Information Folder	RBT12120LFP-SBH-00 22/10/2025
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4. Statement of conformity

The information document as given in paragraph 0.4 and the type described there are in compliance with the test specification mentioned above.

With regard to the required level of performance to be achieved, the tested items were representative for the type to be approved and cover all variants / versions described in the information folder

The tests were carried out in accordance with the relevant requirements of EN ISO/IEC 17025 and EN ISO/IEC 17020 / R10-06 ECE/UN.

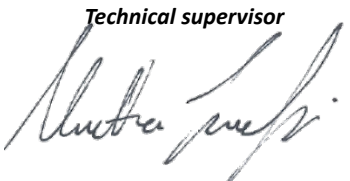
The tested object complies / ~~not complies~~ with the prescriptions of the R10-06 ECE/UN.

The inspection report comprises pages 1 to 25.

The test results relates only to the product tested.

I shall not be reproduced except in full, without written approval of the Technical Service.

Dogana, Repubblica di San Marino, 29/10/2025

Number of project and protocol	Originality Check (*)	Automotive Technical Service S.r.l. Inspector  (Lily Li)	
	 ATS-SM-PR-27460	Automotive Technical Service S.r.l. Technical supervisor  (Eng. Matteo Zivelonghi)	

(*) To check the originality of documents, scan the QR Code or connect to the site <https://www.ats.sm/originality-control-atp-adr-tyapp/> and follow the instruction in it.

Appendix 1

List of modifications

Applicable/ Not Applicable

Appendix 1

More details for application of

Date : --

Correction of : -

Modification of : -

Addition of : -

Deletion of : -



Appendix 2

Test data	Applicable / Not Applicable	Appendix 2
1 Test object(s)		
1.1. Commercial description:		Renogy 12V 120Ah Solid State LiFePO4 Lithium Battery Pro
1.2. Type:		RBT12120LFP-SBH
1.2.1. Variants:	N/A	
1.3. Technical data of the tested ESA type		See information document
1.3.1. Electrical system rated voltage:		12V
1.3.2. This ESA can be used on any vehicle type with the following restrictions:	N/A	
1.3.3. Installation conditions:	N/A	
1.3.4. This ESA can be used on the following vehicle types:	N/A	
1.3.5. Installation conditions	N/A	

Test results (DC 12 V)**1. Broadband / narrowband electromagnetic interference generated by ESAs**

Radiated broadband electromagnetic Emissions : as shown in table 1

Radiated narrow band electromagnetic Emissions : as shown in table 2

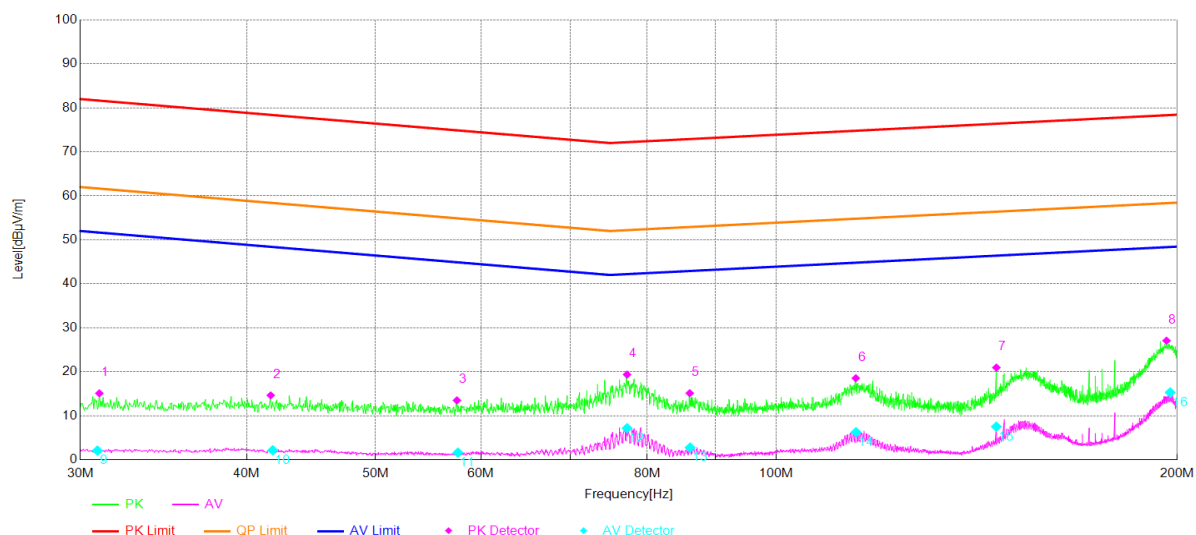
Antenna position : horizontal and vertical

Rated voltage : DC 12 V



Charging

Horizontal Polarity Test Result Diagram (Broadband and Narrow band)

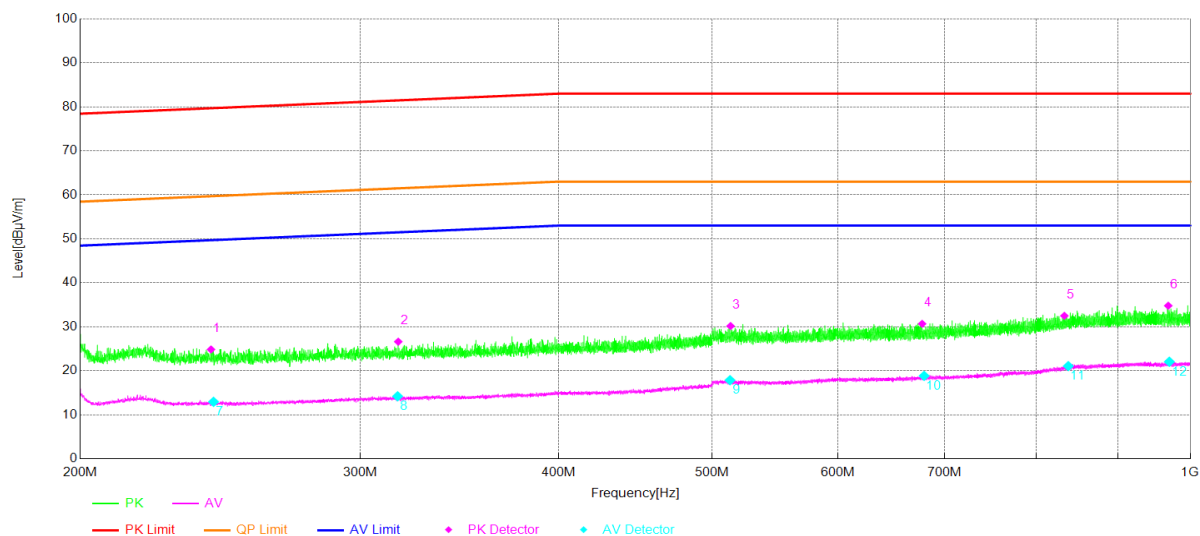


NO.	Band	Frequency [Hz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Detector	Instrument	Verdict
1	NONE	31M	15.09	12.98	81.64	66.55	PK	Horizontal	PASS
2	NONE	41.7M	14.63	12.92	78.41	63.78	PK	Horizontal	PASS
3	NONE	57.55M	13.49	11.90	74.89	61.40	PK	Horizontal	PASS
4	NONE	77.25M	19.36	11.14	72.19	52.83	PK	Horizontal	PASS
5	NONE	86.1M	15.12	11.17	72.91	57.79	PK	Horizontal	PASS
6	NONE	114.75M	18.53	11.99	74.79	56.26	PK	Horizontal	PASS
7	NONE	146.35M	20.94	12.09	76.39	55.45	PK	Horizontal	PASS
8	NONE	196.45M	27.06	14.54	78.33	51.27	PK	Horizontal	PASS
9	NONE	30.9M	2.07	12.98	51.68	49.61	AV	Horizontal	PASS
10	NONE	41.85M	2.15	12.91	48.37	46.22	AV	Horizontal	PASS
11	NONE	57.65M	1.60	11.89	44.87	43.27	AV	Horizontal	PASS
12	NONE	77.25M	7.16	11.14	42.19	35.03	AV	Horizontal	PASS
13	NONE	86.15M	2.75	11.17	42.91	40.16	AV	Horizontal	PASS
14	NONE	114.8M	6.25	11.99	44.80	38.55	AV	Horizontal	PASS
15	NONE	146.35M	7.51	12.09	46.39	38.88	AV	Horizontal	PASS
16	NONE	197.7M	15.29	14.62	48.37	33.08	AV	Horizontal	PASS

Of: 29/10/2025

Type: RBT12120LFP-SBH

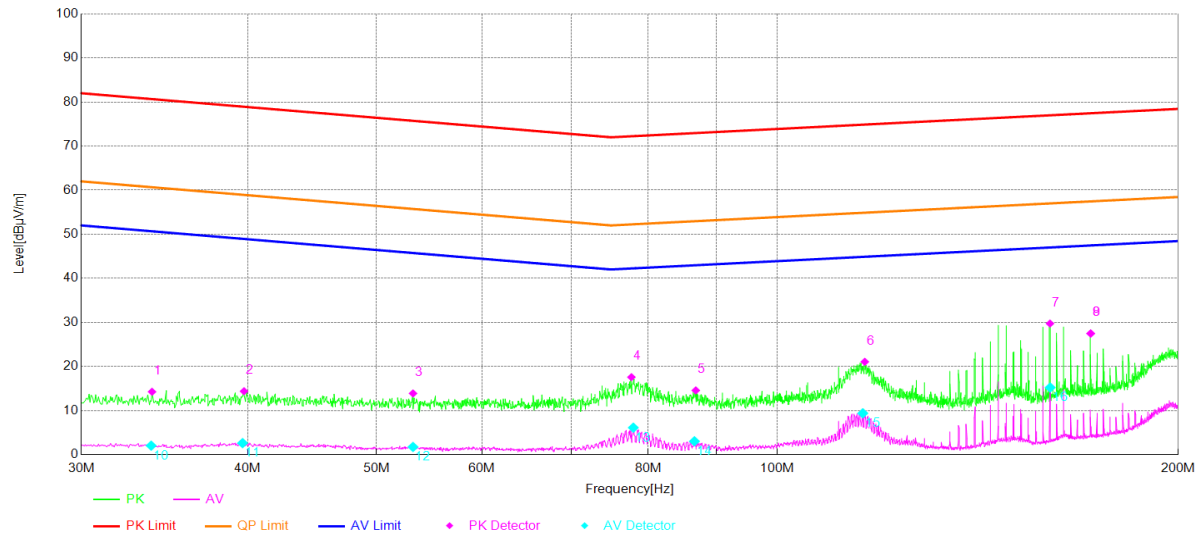
Manufacturer: Enerblok Co., Ltd.



NO.	Band	Frequency [Hz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Detector	Instrument	Verdict
1	NONE	241.7M	24.84	14.00	79.69	54.85	PK	Horizontal	PASS
2	NONE	317.1M	26.60	15.28	81.47	54.87	PK	Horizontal	PASS
3	NONE	513.45M	30.16	17.70	83.00	52.84	PK	Horizontal	PASS
4	NONE	677.8M	30.67	18.82	83.00	52.33	PK	Horizontal	PASS
5	NONE	833.05M	32.49	20.38	83.00	50.51	PK	Horizontal	PASS
6	NONE	968.5M	34.78	20.95	83.00	48.22	PK	Horizontal	PASS
7	NONE	242.6M	12.93	14.00	49.71	36.78	AV	Horizontal	PASS
8	NONE	316.8M	14.19	15.27	51.47	37.28	AV	Horizontal	PASS
9	NONE	513M	17.84	17.70	53.00	35.16	AV	Horizontal	PASS
10	NONE	679.75M	18.83	18.83	53.00	34.17	AV	Horizontal	PASS
11	NONE	837.8M	21.05	20.50	53.00	31.95	AV	Horizontal	PASS
12	NONE	970M	22.04	20.95	53.00	30.96	AV	Horizontal	PASS

The ESA is deemed to conform to the requirements in respect of this frequency band according to 6.5.2.2 and 6.6.2.2. of Regulation 10.06/ECE.

Vertical Polarity Test Result Diagram (Broadband and Narrow band)

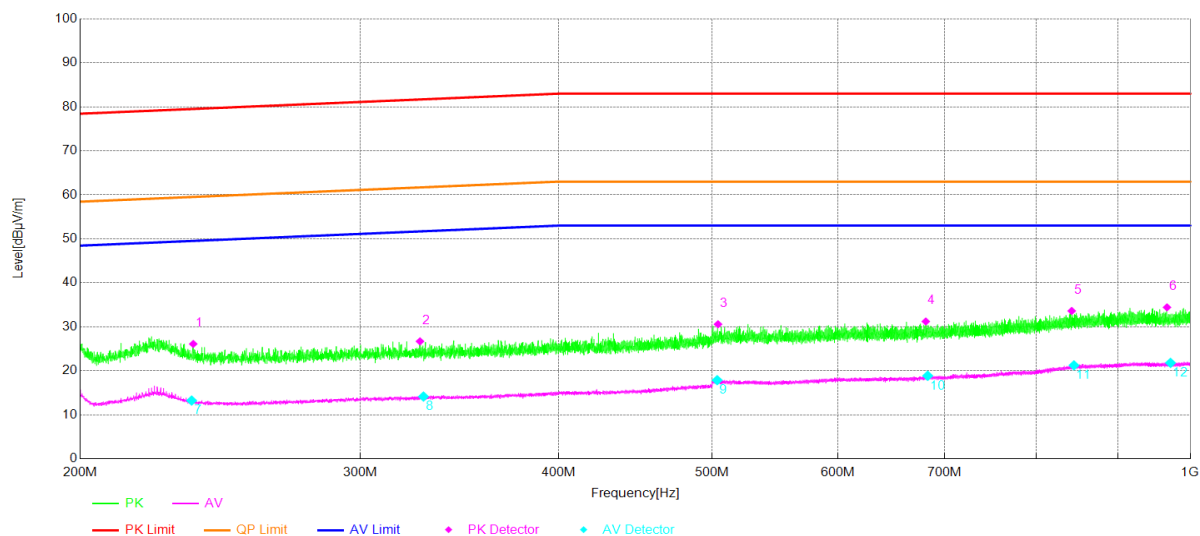


NO.	Band	Frequency [Hz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Detector	Instrument	Verdict
1	NONE	33.9M	14.25	12.93	80.67	66.42	PK	Vertical	PASS
2	NONE	39.75M	14.37	13.04	78.93	64.56	PK	Vertical	PASS
3	NONE	53.25M	13.87	12.01	75.74	61.87	PK	Vertical	PASS
4	NONE	77.7M	17.56	11.15	72.23	54.67	PK	Vertical	PASS
5	NONE	86.85M	14.55	11.20	72.96	58.41	PK	Vertical	PASS
6	NONE	116.35M	21.04	11.92	74.89	53.85	PK	Vertical	PASS
7	NONE	160.3M	29.73	13.02	76.99	47.26	PK	Vertical	PASS
8	NONE	172M	27.47	13.30	77.45	49.98	PK	Vertical	PASS
9	NONE	172M	27.47	13.30	77.45	49.98	PK	Vertical	PASS
10	NONE	33.85M	2.01	12.93	50.68	48.67	AV	Vertical	PASS
11	NONE	39.65M	2.59	13.04	48.96	46.37	AV	Vertical	PASS
12	NONE	53.25M	1.72	12.01	45.74	44.02	AV	Vertical	PASS
13	NONE	77.95M	6.10	11.16	42.25	36.15	AV	Vertical	PASS
14	NONE	86.65M	3.01	11.19	42.95	39.94	AV	Vertical	PASS
15	NONE	115.95M	9.36	11.94	44.86	35.50	AV	Vertical	PASS
16	NONE	160.35M	15.21	13.03	46.99	31.78	AV	Vertical	PASS

Of: 29/10/2025

Type: RBT12120LFP-SBH

Manufacturer: Enerblok Co., Ltd.

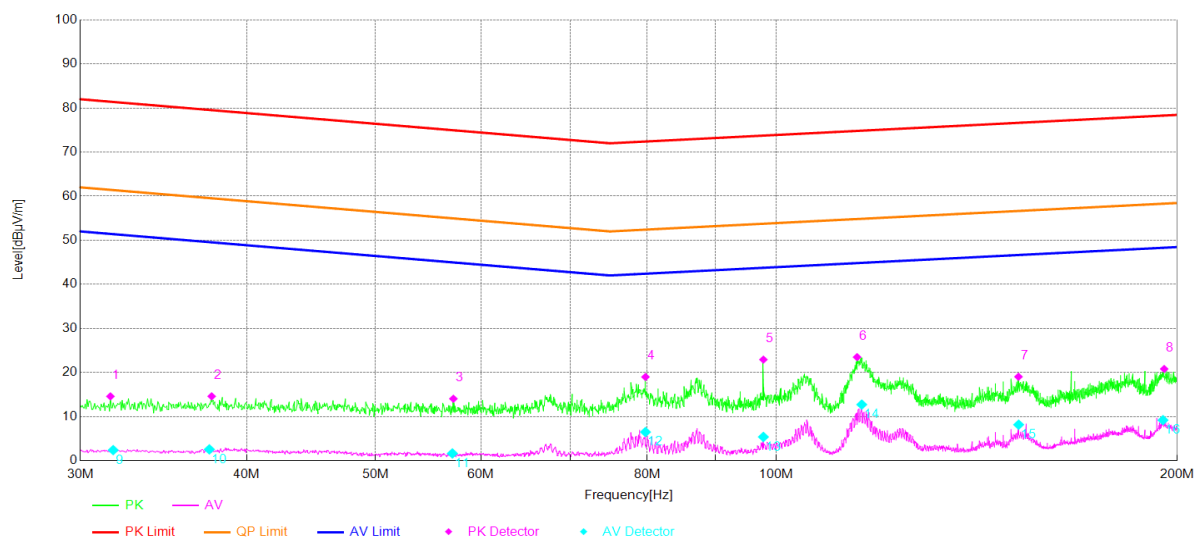


NO.	Band	Frequency [Hz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Detector	Instrument	Verdict
1	NONE	235.55M	26.09	13.98	79.52	53.43	PK	Vertical	PASS
2	NONE	327.25M	26.68	15.36	81.68	55.00	PK	Vertical	PASS
3	NONE	504.15M	30.57	17.71	83.00	52.43	PK	Vertical	PASS
4	NONE	681.4M	31.20	18.84	83.00	51.80	PK	Vertical	PASS
5	NONE	841.95M	33.59	20.59	83.00	49.41	PK	Vertical	PASS
6	NONE	966.7M	34.42	20.95	83.00	48.58	PK	Vertical	PASS
7	NONE	235M	13.22	13.98	49.50	36.28	AV	Vertical	PASS
8	NONE	328.9M	14.13	15.37	51.71	37.58	AV	Vertical	PASS
9	NONE	503.55M	17.85	17.71	53.00	35.15	AV	Vertical	PASS
10	NONE	683.3M	18.85	18.85	53.00	34.15	AV	Vertical	PASS
11	NONE	844.75M	21.22	20.66	53.00	31.78	AV	Vertical	PASS
12	NONE	971.65M	21.78	20.96	53.00	31.22	AV	Vertical	PASS

The ESA is deemed to conform to the requirements in respect of this frequency band according to 6.5.2.2 and 6.6.2.2. of Regulation 10.06/ECE.

Discharging

Horizontal Polarity Test Result Diagram (Broadband and Narrow band)

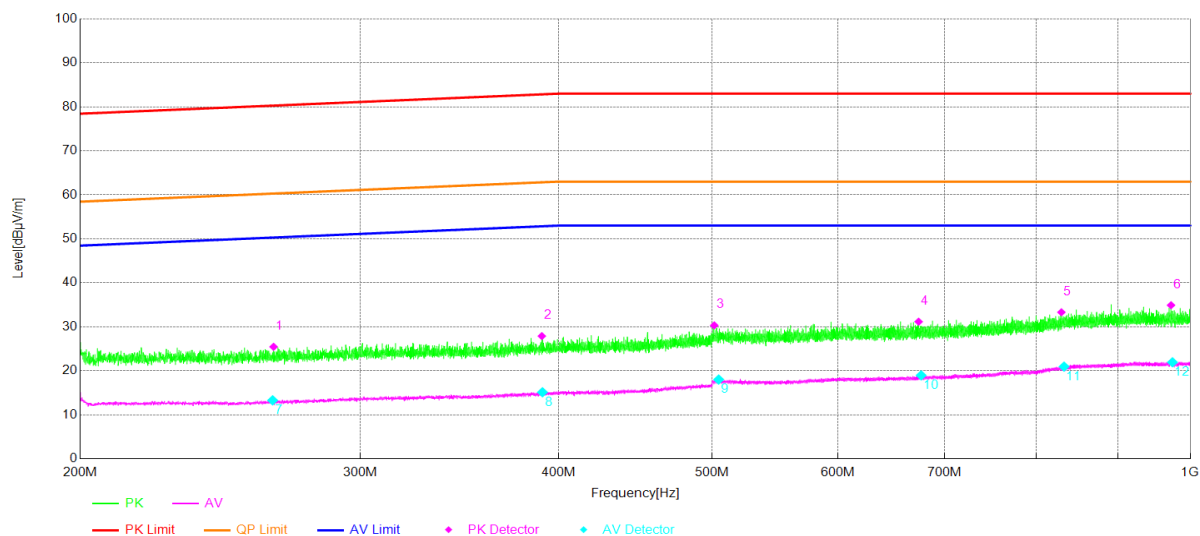


NO.	Band	Frequency [Hz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Detector	Instrument	Verdict
1	NONE	31.6M	14.56	12.97	81.43	66.87	PK	Horizontal	PASS
2	NONE	37.65M	14.58	12.98	79.52	64.94	PK	Horizontal	PASS
3	NONE	57.2M	14.02	11.91	74.96	60.94	PK	Horizontal	PASS
4	NONE	79.75M	18.97	11.20	72.40	53.43	PK	Horizontal	PASS
5	NONE	97.8M	22.90	11.65	73.74	50.84	PK	Horizontal	PASS
6	NONE	115M	23.47	12.00	74.81	51.34	PK	Horizontal	PASS
7	NONE	152.05M	19.02	12.47	76.64	57.62	PK	Horizontal	PASS
8	NONE	195.65M	20.79	14.49	78.30	57.51	PK	Horizontal	PASS
9	NONE	31.75M	2.37	12.97	51.38	49.01	AV	Horizontal	PASS
10	NONE	37.5M	2.53	12.98	49.56	47.03	AV	Horizontal	PASS
11	NONE	57.1M	1.61	11.91	44.98	43.37	AV	Horizontal	PASS
12	NONE	79.75M	6.47	11.20	42.40	35.93	AV	Horizontal	PASS
13	NONE	97.8M	5.36	11.65	43.74	38.38	AV	Horizontal	PASS
14	NONE	115.95M	12.70	11.94	44.86	32.16	AV	Horizontal	PASS
15	NONE	152.1M	8.13	12.48	46.65	38.52	AV	Horizontal	PASS
16	NONE	195.25M	9.16	14.47	48.29	39.13	AV	Horizontal	PASS

Of: 29/10/2025

Type: RBT12120LFP-SBH

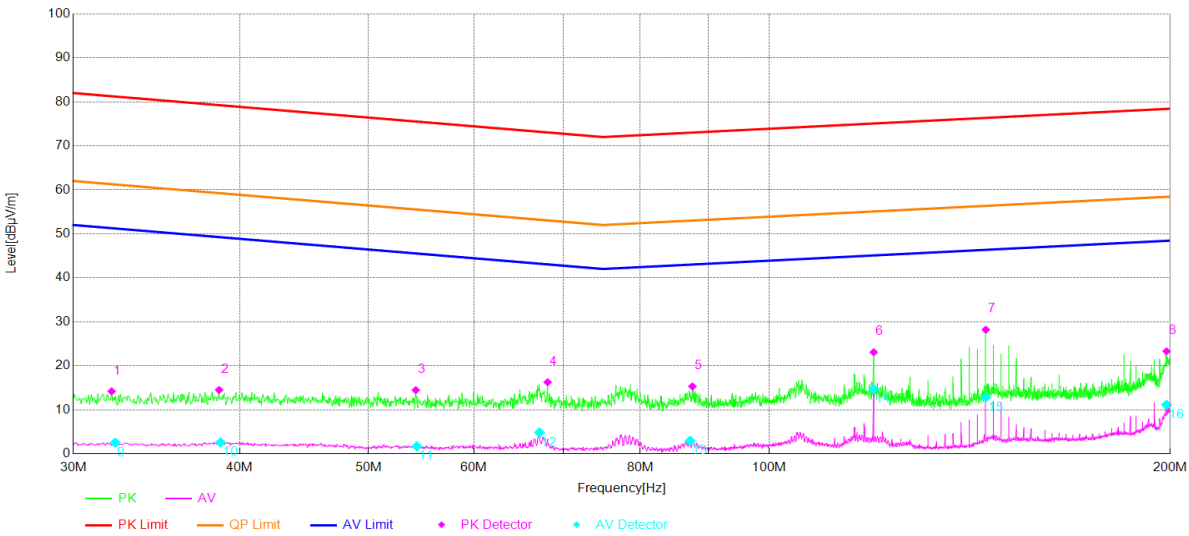
Manufacturer: Enerblok Co., Ltd.



NO.	Band	Frequency [Hz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Detector	Instrument	Verdict
1	NONE	264.65M	25.44	14.36	80.29	54.85	PK	Horizontal	PASS
2	NONE	390.5M	27.88	16.17	82.84	54.96	PK	Horizontal	PASS
3	NONE	501.4M	30.31	17.71	83.00	52.69	PK	Horizontal	PASS
4	NONE	674.35M	31.15	18.80	83.00	51.85	PK	Horizontal	PASS
5	NONE	829.45M	33.30	20.30	83.00	49.70	PK	Horizontal	PASS
6	NONE	972.4M	34.90	20.96	83.00	48.10	PK	Horizontal	PASS
7	NONE	264.3M	13.27	14.35	50.28	37.01	AV	Horizontal	PASS
8	NONE	390.85M	15.10	16.18	52.85	37.75	AV	Horizontal	PASS
9	NONE	504.65M	17.99	17.71	53.00	35.01	AV	Horizontal	PASS
10	NONE	676.85M	18.95	18.81	53.00	34.05	AV	Horizontal	PASS
11	NONE	832.7M	20.93	20.37	53.00	32.07	AV	Horizontal	PASS
12	NONE	974.45M	21.92	20.96	53.00	31.08	AV	Horizontal	PASS

The ESA is deemed to conform to the requirements in respect of this frequency band according to 6.5.2.2 and 6.6.2.2. of Regulation 10.06/ECE.

Vertical Polarity Test Result Diagram (Broadband and Narrow band)



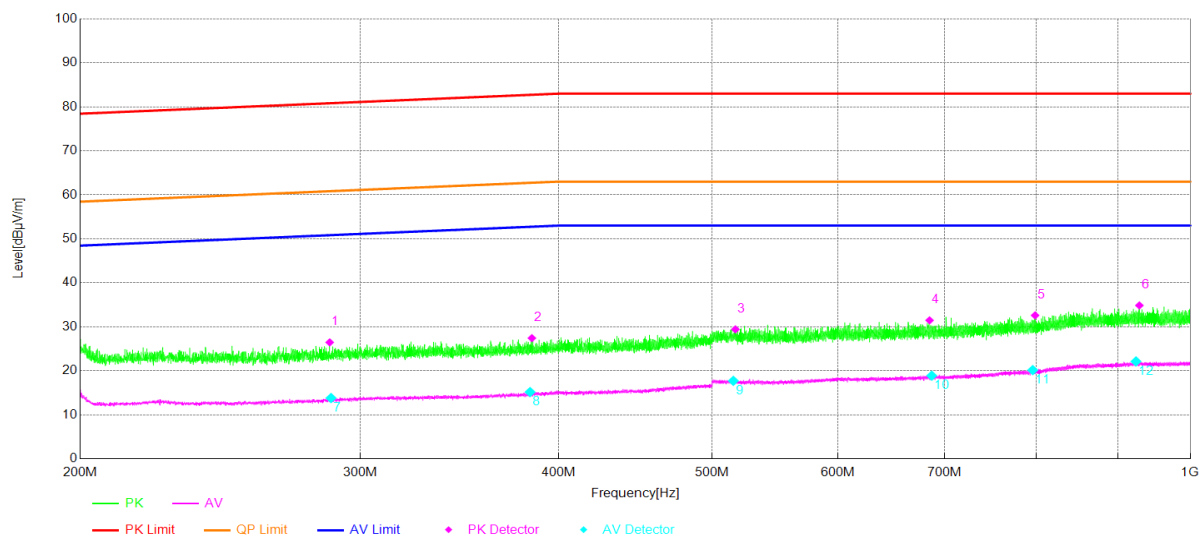
NO.	Band	Frequency [Hz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Detector	Instrument	Verdict
1	NONE	32.05M	14.17	12.96	81.28	67.11	PK	Vertical	PASS
2	NONE	38.6M	14.49	13.01	79.25	64.76	PK	Vertical	PASS
3	NONE	54.25M	14.45	11.99	75.53	61.08	PK	Vertical	PASS
4	NONE	68.15M	16.25	11.39	73.05	56.80	PK	Vertical	PASS
5	NONE	87.55M	15.29	11.23	73.02	57.73	PK	Vertical	PASS
6	NONE	119.8M	23.08	11.72	75.08	52.00	PK	Vertical	PASS
7	NONE	145.45M	28.20	12.01	76.35	48.15	PK	Vertical	PASS
8	NONE	198.85M	23.29	14.69	78.41	55.12	PK	Vertical	PASS
9	NONE	32.25M	2.51	12.96	51.21	48.70	AV	Vertical	PASS
10	NONE	38.7M	2.57	13.01	49.22	46.65	AV	Vertical	PASS
11	NONE	54.35M	1.69	11.98	45.51	43.82	AV	Vertical	PASS
12	NONE	67.2M	4.83	11.41	43.20	38.37	AV	Vertical	PASS
13	NONE	87.2M	2.92	11.22	42.99	40.07	AV	Vertical	PASS
14	NONE	119.8M	14.66	11.72	45.08	30.42	AV	Vertical	PASS
15	NONE	145.45M	12.81	12.01	46.35	33.54	AV	Vertical	PASS
16	NONE	198.85M	11.13	14.69	48.41	37.28	AV	Vertical	PASS



Of: 29/10/2025

Type: RBT12120LFP-SBH

Manufacturer: Enerblok Co., Ltd.



NO.	Band	Frequency [Hz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Detector	Instrument	Verdict
1	NONE	287.1M	26.45	14.85	80.82	54.37	PK	Vertical	PASS
2	NONE	384.9M	27.41	16.08	82.75	55.34	PK	Vertical	PASS
3	NONE	517M	29.41	17.70	83.00	53.59	PK	Vertical	PASS
4	NONE	685.15M	31.46	18.86	83.00	51.54	PK	Vertical	PASS
5	NONE	798.4M	32.59	19.59	83.00	50.41	PK	Vertical	PASS
6	NONE	928.75M	34.85	20.90	83.00	48.15	PK	Vertical	PASS
7	NONE	287.65M	13.79	14.87	50.83	37.04	AV	Vertical	PASS
8	NONE	383.9M	15.15	16.07	52.73	37.58	AV	Vertical	PASS
9	NONE	515.5M	17.70	17.70	53.00	35.30	AV	Vertical	PASS
10	NONE	687.25M	18.87	18.87	53.00	34.13	AV	Vertical	PASS
11	NONE	795.7M	20.14	19.58	53.00	32.86	AV	Vertical	PASS
12	NONE	924.2M	22.11	20.90	53.00	30.89	AV	Vertical	PASS

The ESA is deemed to conform to the requirements in respect of this frequency band according to 6.5.2.2 and 6.6.2.2. of Regulation 10.06/ECE.

2. Immunity of ESAs to electromagnetic radiation

Test method : ISO 11452-2:2004; ISO 11452-4:2005

Measurement result:

Charging

Frequency range (MHz)	Test level	Type of modulation	Test distance	Antenna position	Result
20-400	60mA	AM	150mm	/	Pass*
400-800	30V/m	AM	1000mm	Vertical	Pass*
800-2000	30V/m	PM	1000mm	Vertical	Pass*

Discharging

Frequency range (MHz)	Test level	Type of modulation	Test distance	Antenna position	Result
20-400	60mA	AM	150mm	/	Pass*
400-800	30V/m	AM	1000mm	Vertical	Pass*
800-2000	30V/m	PM	1000mm	Vertical	Pass*

Remark:

* no degradation of performance of 'immunity-related functions.'

3. Immunity of ESAs to transient disturbances

Test method : ISO 7637-2:2004 for pulse 4 and ISO 7637-2:2011 for pulses 1, 2a, 2b, 3a and 3b

Measurement result:

Charging

Test pulse	Test level	Number of pulse / test time	Burst cycle / pulse Repetition time	Required minimum function status *	Status of function true value (mode 1)	Result
1	-75V	5000pulse	0.5s	C	C	Pass
2a	+37 V	5000pulse	0.2s	B	A	Pass
2b	+10 V	10pulse	0.5s	C	C	Pass
3a	-112V	1h	90ms	A	A	Pass
3b	+75 V	1h	90ms	A	A	Pass
4	-6V	1pulse	/	B (for ESA which must be operational during engine start phases) C (for other ESA)	C	Pass

Remark:

* Class A: all functions of a device/system perform as designed during and after exposure to disturbance.

Class B: all functions of a device/system 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.

Class C: one or more functions of a device/system do not perform as designed during exposure but return automatically to normal operation after exposure is removed.

Class 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.

Class E: one or more functions of a device/system do not perform as designed during and after exposure and cannot be returned to proper operation without repairing or replacing the device/system.

Test data

Appendix 2

4. Emission of transient conducted disturbances generated by ESAs

Test method : ISO 7637-2: 2011

Charging

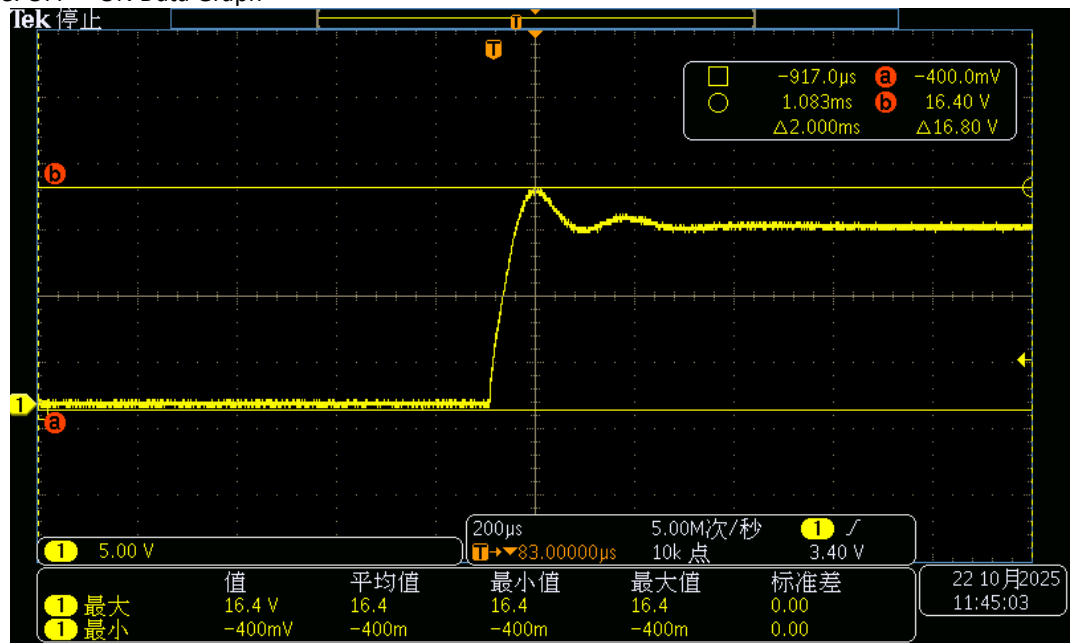
12V systems	Connection Disconnection Permanent	Polarity of pulse amplitude	Maximum allowed value for vehicles with 12V systems	Measured Pulse amplitude True Value
Slow	Switch off --> on	Positive	+75V	+2.90 V
	Switch on -->off	Negative	-100V	-13.50 V
Fast	Switch off --> on	Positive	+75V	+0.10 V
	Switch on -->off	Negative	-100V	-13.70 V

Test data

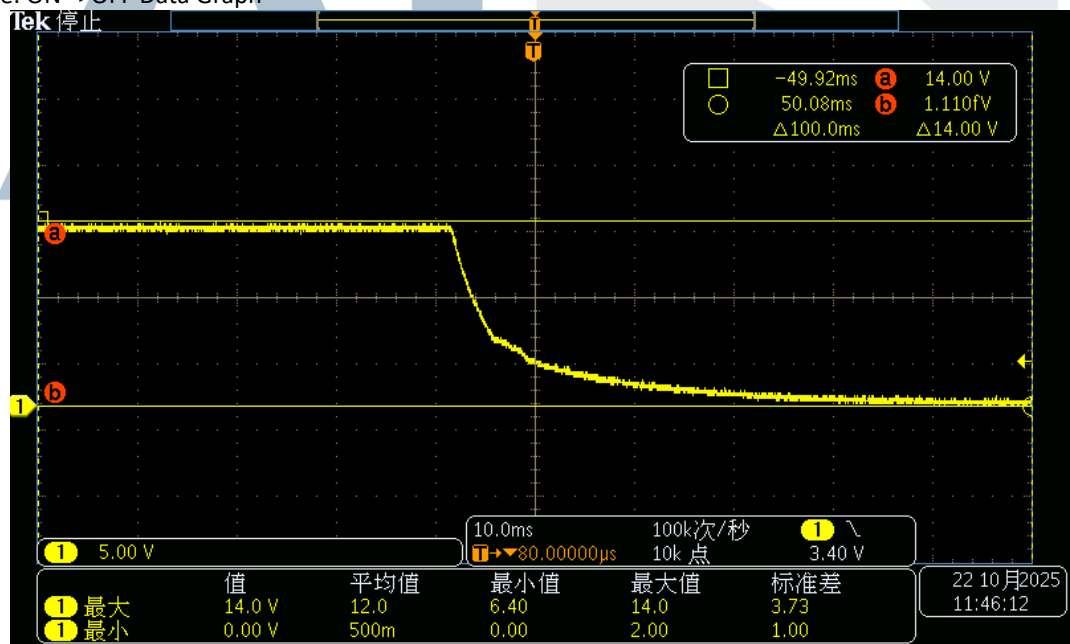
Appendix 2

Charging

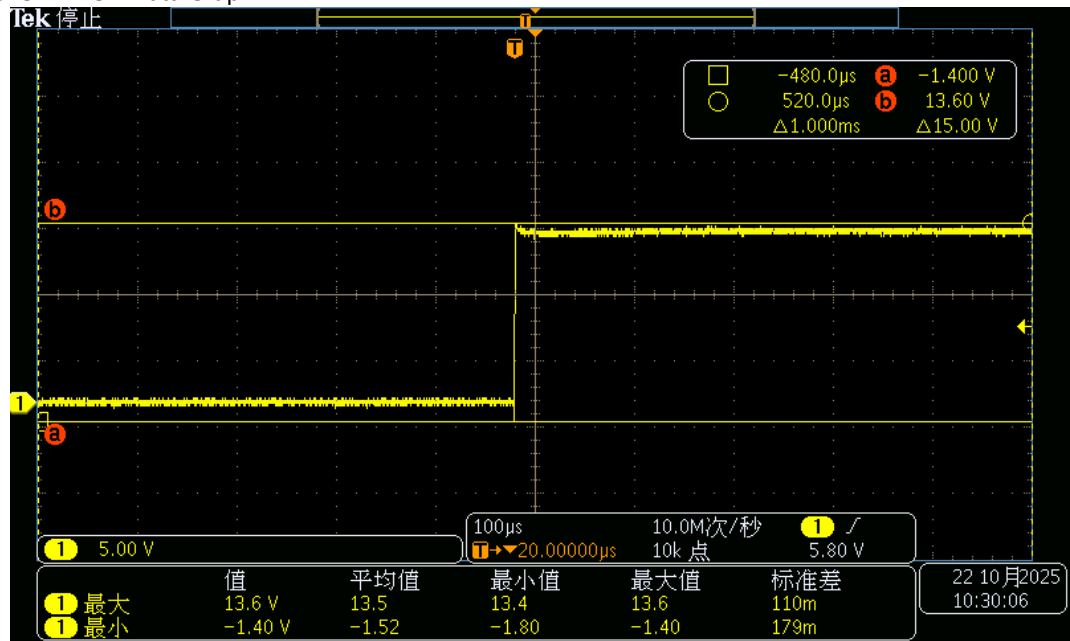
Slow Pulse: OFF-->ON Data Graph



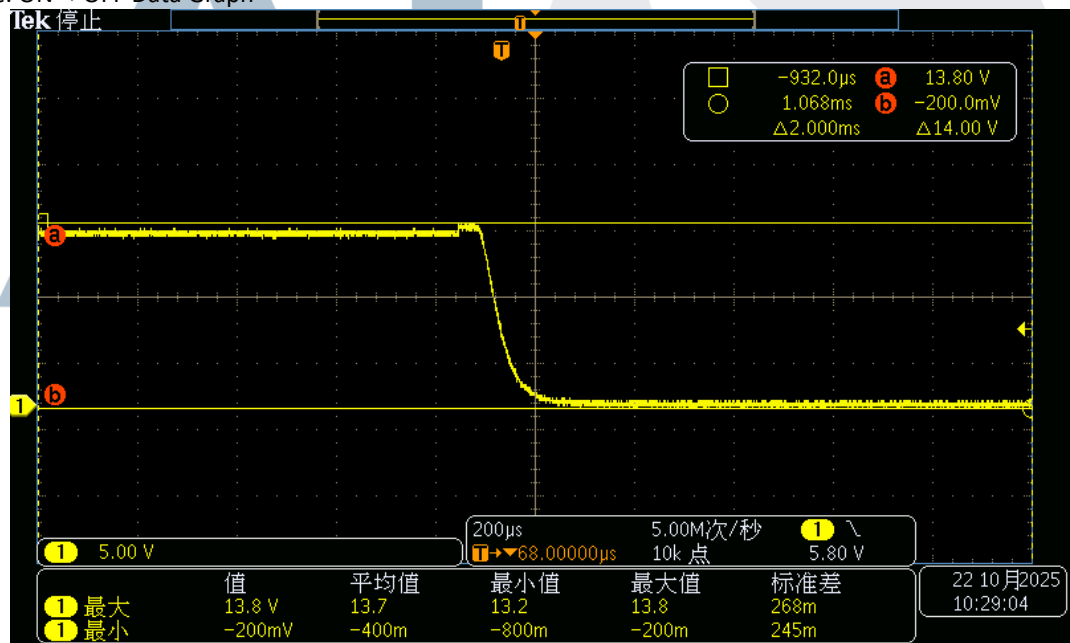
Slow Pulse: ON-->OFF Data Graph



Fast Pulse: OFF-->ON Data Graph



Fast Pulse: ON-->OFF Data Graph

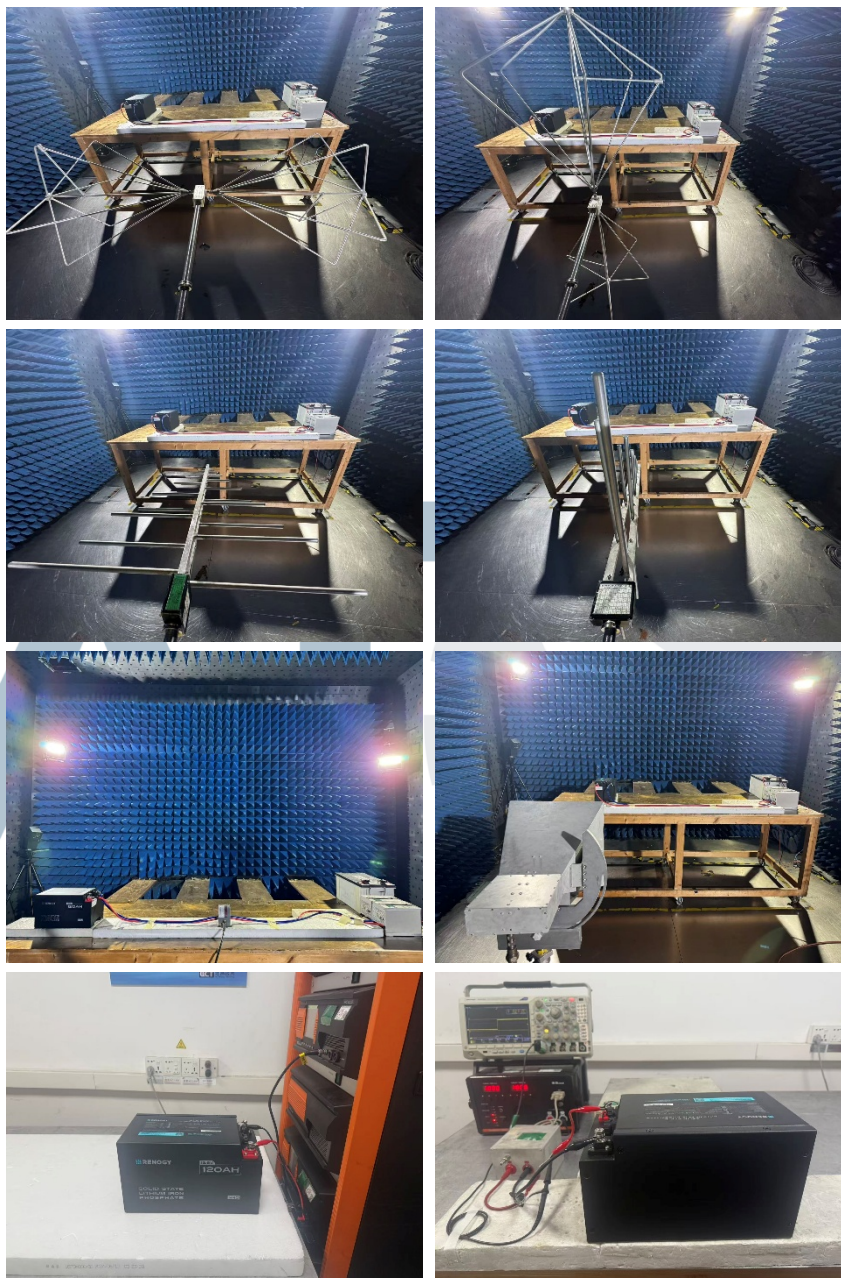


Appendix 3

Sample photos

Applicable / Not Applicable

Appendix 3



Appendix 4

List of main equipment

Applicable / ~~Not Applicable~~

Appendix 4

Equipment	Serial / Certificate No.	Calibration due*
ALSE ROOM	CN J202410254887A-0002	31/10/2025
Injection probe	CN Q12526510014	19/06/2026
L.I.S.N.	CN Q12526510011	19/06/2026
L.I.S.N.	CN Q12526510012	19/06/2026
Biconical antenna	CN Q32528330007A	29/06/2026
Log-periodic antenna	CN Q32528330005	29/06/2026
Supply Voltage Change Simulator	CN Q12526510001	19/06/2026
Load dump wave simulator	CN Q12526510002	19/06/2026
Transient pulse disturbance simulator	CN Q12526510003	19/06/2026
Scanning receiver	CN J202412276795-01-0001	22/01/2026
Digital phosphor oscilloscope	CN J202412276795A-0009	08/01/2026

All the instruments have been calibrated and are in the period of validity.

**Information document no. RBT12120LFP-SBH-00 relating to type-approval of
an electronic subassembly with respect to electromagnetic compatibility
(ECE Regulation 10.06 to Supplement 3)**

Type : RBT12120LFP-SBH

Manufacturer : Enerblok Co., Ltd.

Authorized person : 赵奥琛

Date : 22/10/2025

INDEX

3	Index
4	General
5	Drawings of the ESA
6	Electronic block diagram
20	List of components constituting the ESA

GENERAL

1. Make (trade name of manufacturer):



2. Type: **RBT12120LFP-SBH**

General commercial description(s):

Renogy 12V 120Ah Solid State LiFePO4 Lithium Battery Pro

3. Means of identification of type, if marked on the component:
Approval mark

- 3.1 Location of that marking:
Stuck on the enclosure, See Drawings of the ESA.

4. Name and address of manufacturer:
Enerblok Co., Ltd.
98 Huicheng Road, Changan Street, Huishan District, Wuxi City, Jiangsu Province, China

Name and address of authorised representative, if any: **N/A**

5. In the case of components and separate technical units, location and method of affixing of the approval mark:
Stuck on the enclosure, See Drawings of the ESA.

6. Address(es) of assembly plant(s):
Enerblok Co., Ltd.
98 Huicheng Road, Changan Street, Huishan District, Wuxi City, Jiangsu Province, China

7. This ESA shall be approved as a component.

8. Any restrictions of use and conditions for fitting:
N/A

9. Electrical system rated voltage:
DC 12V, negative ground.

Appendix 1: Description of the ESA chosen to represent the type (electronic block diagram and list of main component constituting the ESA (e.g. make and type of microprocessor, crystal, etc.).

See electronic block diagram and list of main component constituting the ESA for details.

Appendix 2: Relevant test report(s) supplied by the manufacturer from a test laboratory accredited to ISO 17025 and recognized by the Type Approval Authority for the purpose of drawing up the type approval certificate.

N/A

Only applicable for charging systems: **N/A**

10. Charger:

N/A

11. Charging current:

N/A

12. Maximal nominal current (in each mode if necessary):

N/A

13. Nominal charging voltage:

N/A

14. Basic ESA interface functions:

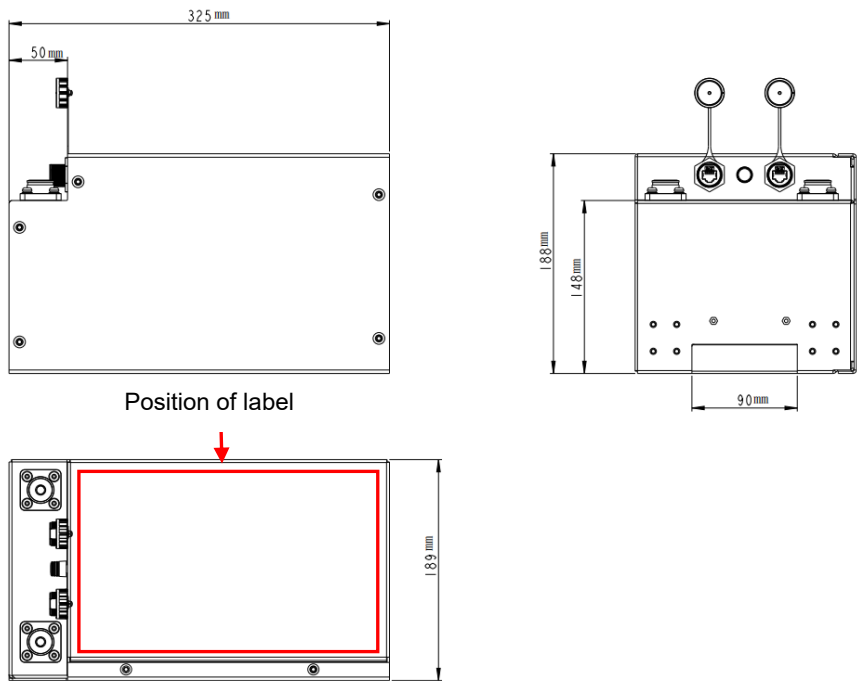
N/A

15. Minimum R_{sce} value (see paragraph 7.11. of this Regulation):

N/A

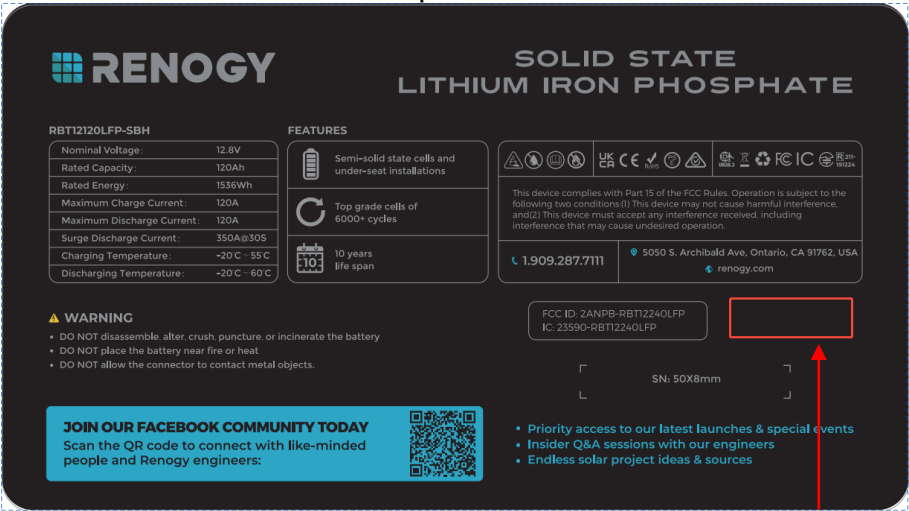
Drawings of the ESA

Location of the ECE approval mark



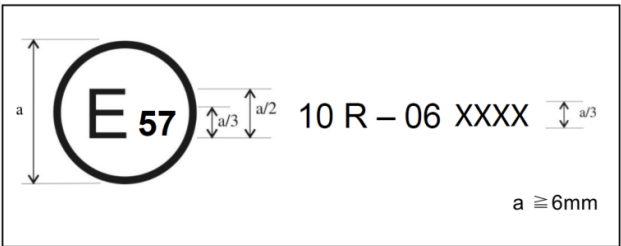
Position of label

Example of label



Position of approval mark

Example of approval mark

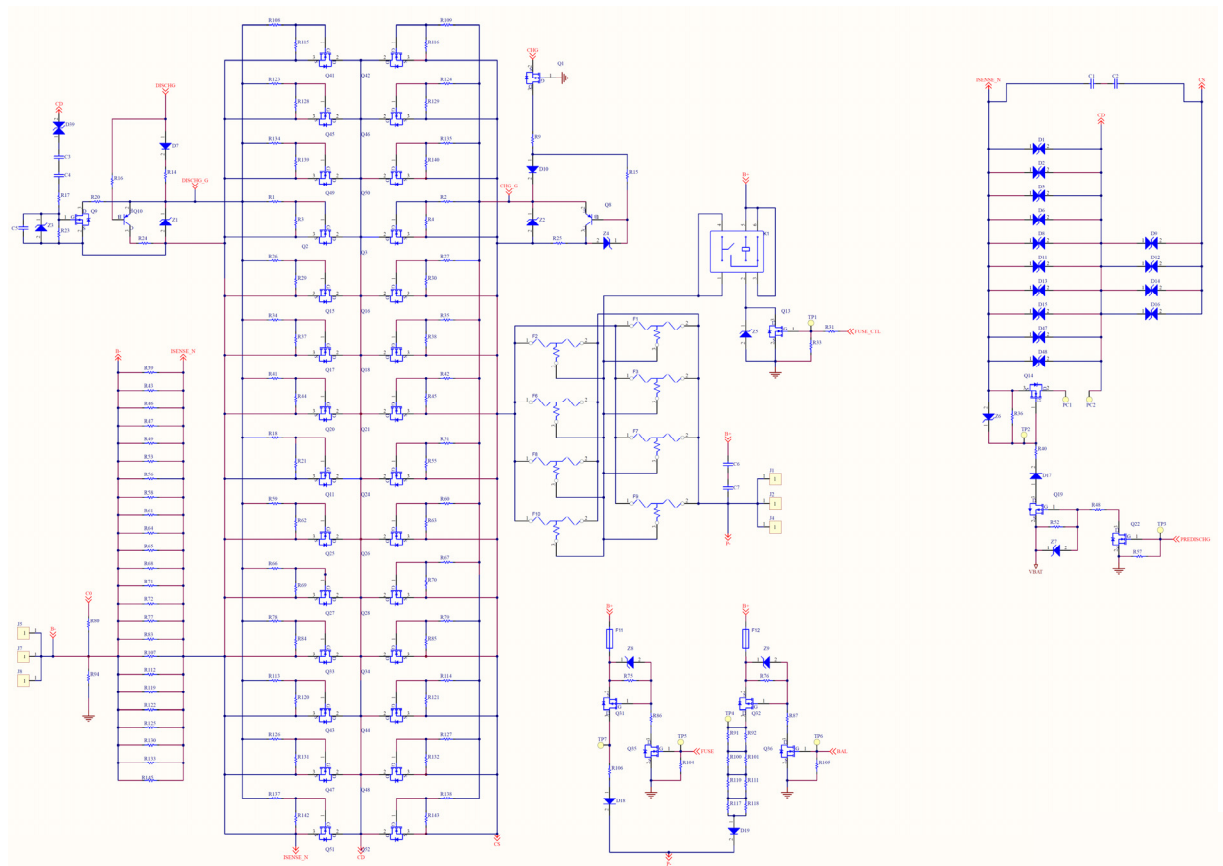


Information document No. : RBT12120LFP-SBH-00

Manufacturer : Enerblok Co., Ltd.

Regulation : R10.06 to Supplement 3

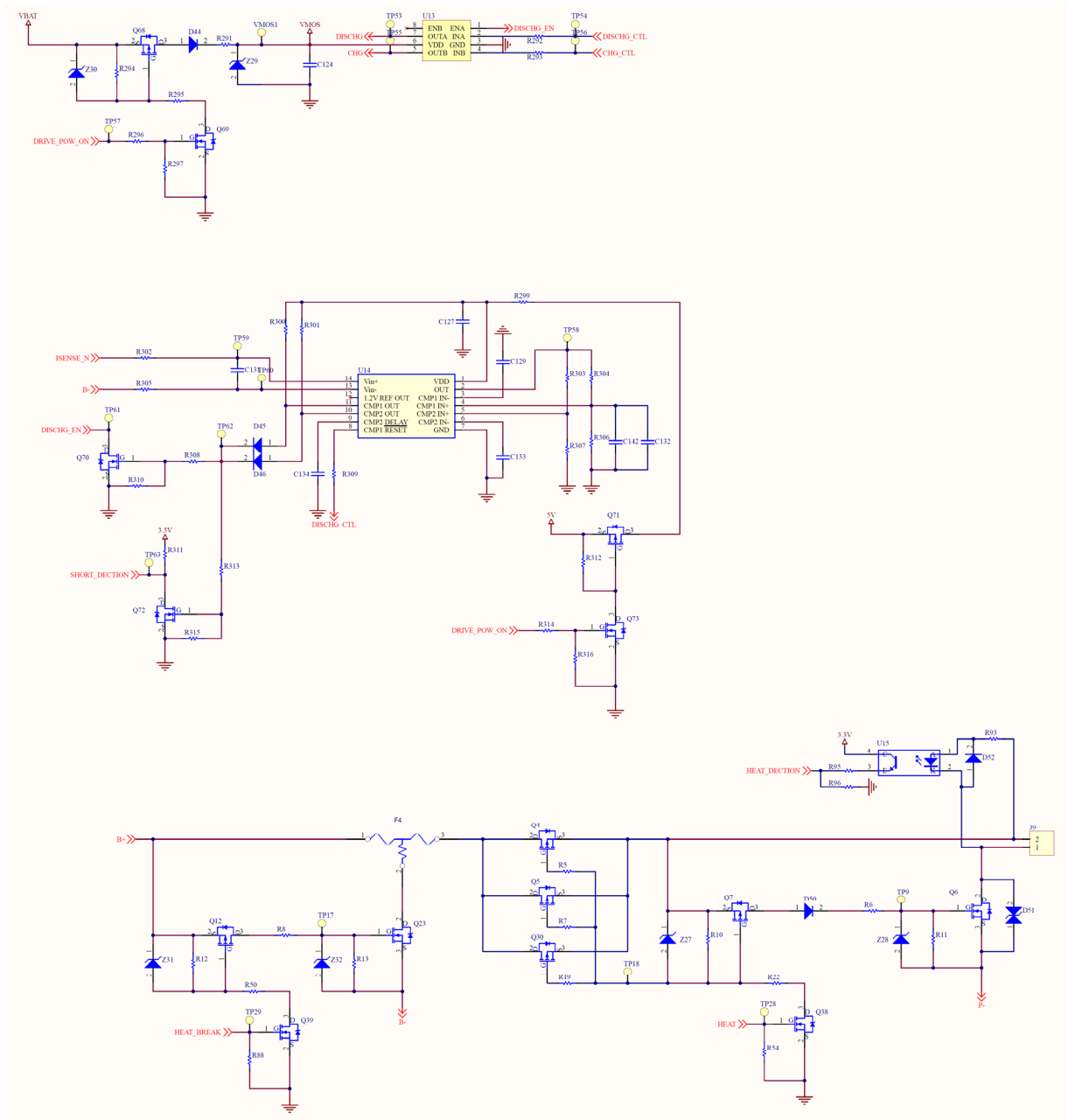
Electronic Block Diagram



Information document No. : RBT12120LFP-SBH-00

Manufacturer : Enerblok Co., Ltd.

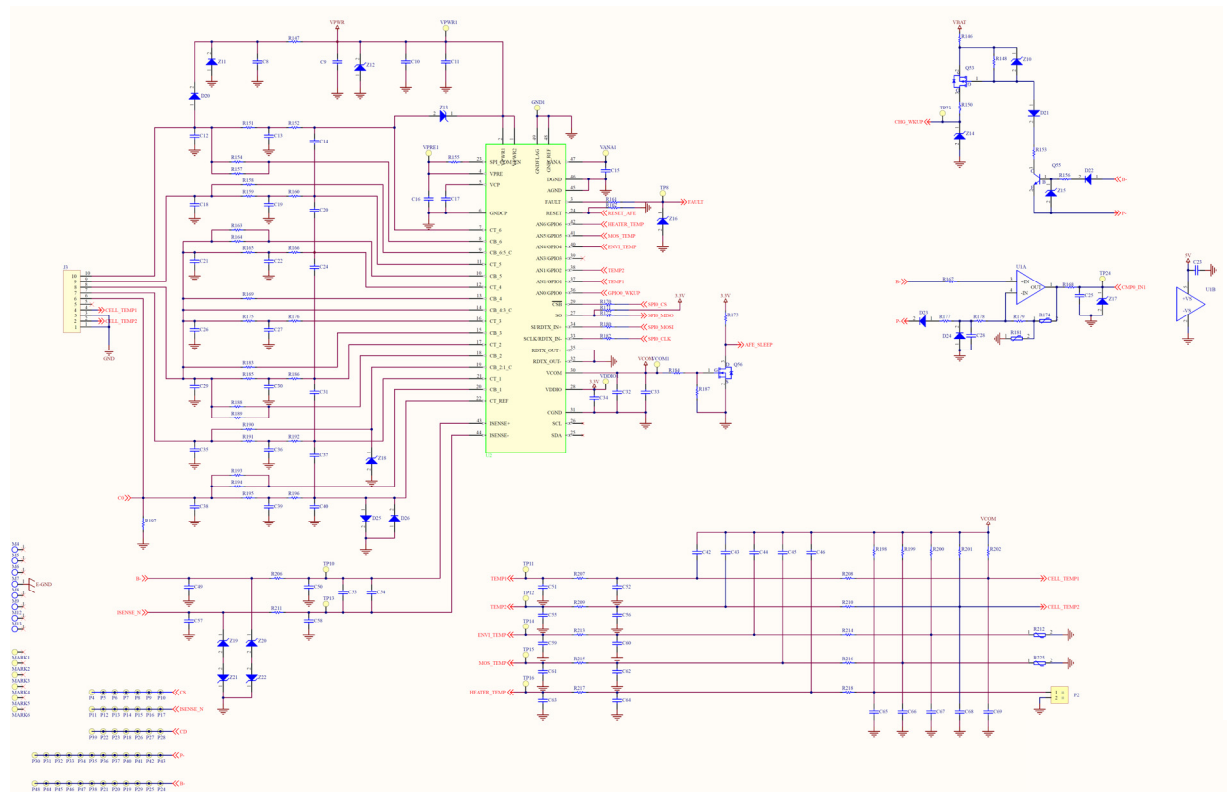
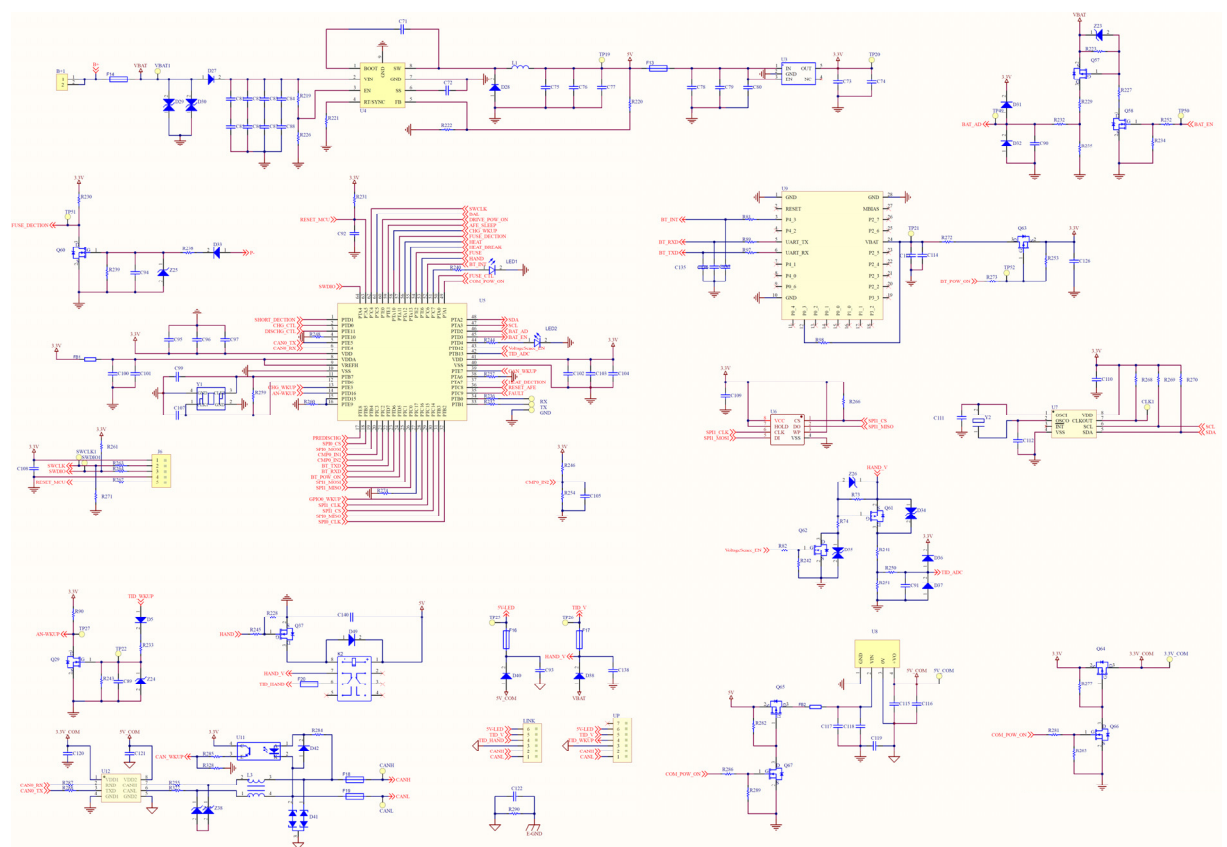
Regulation : R10.06 to Supplement 3

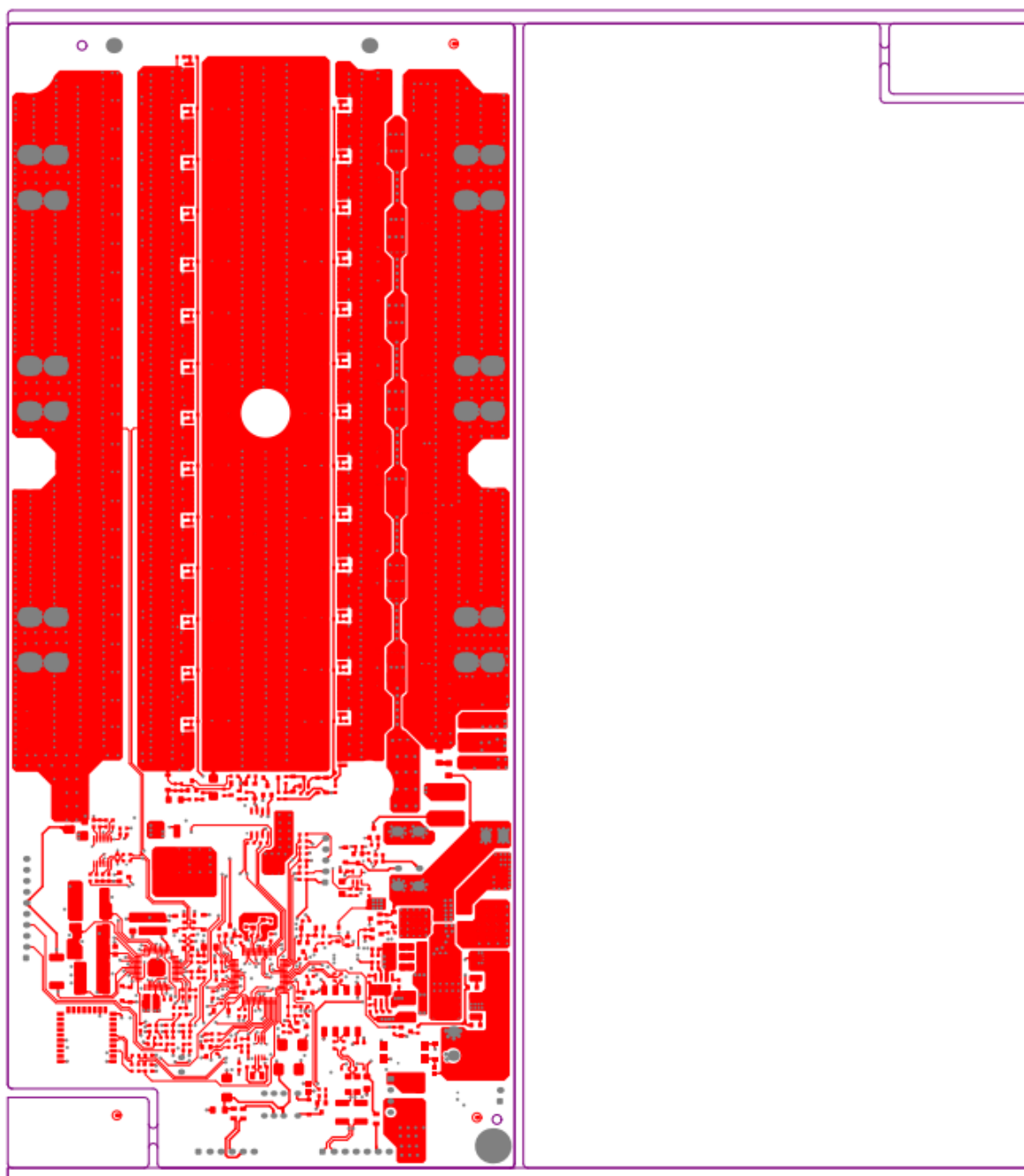


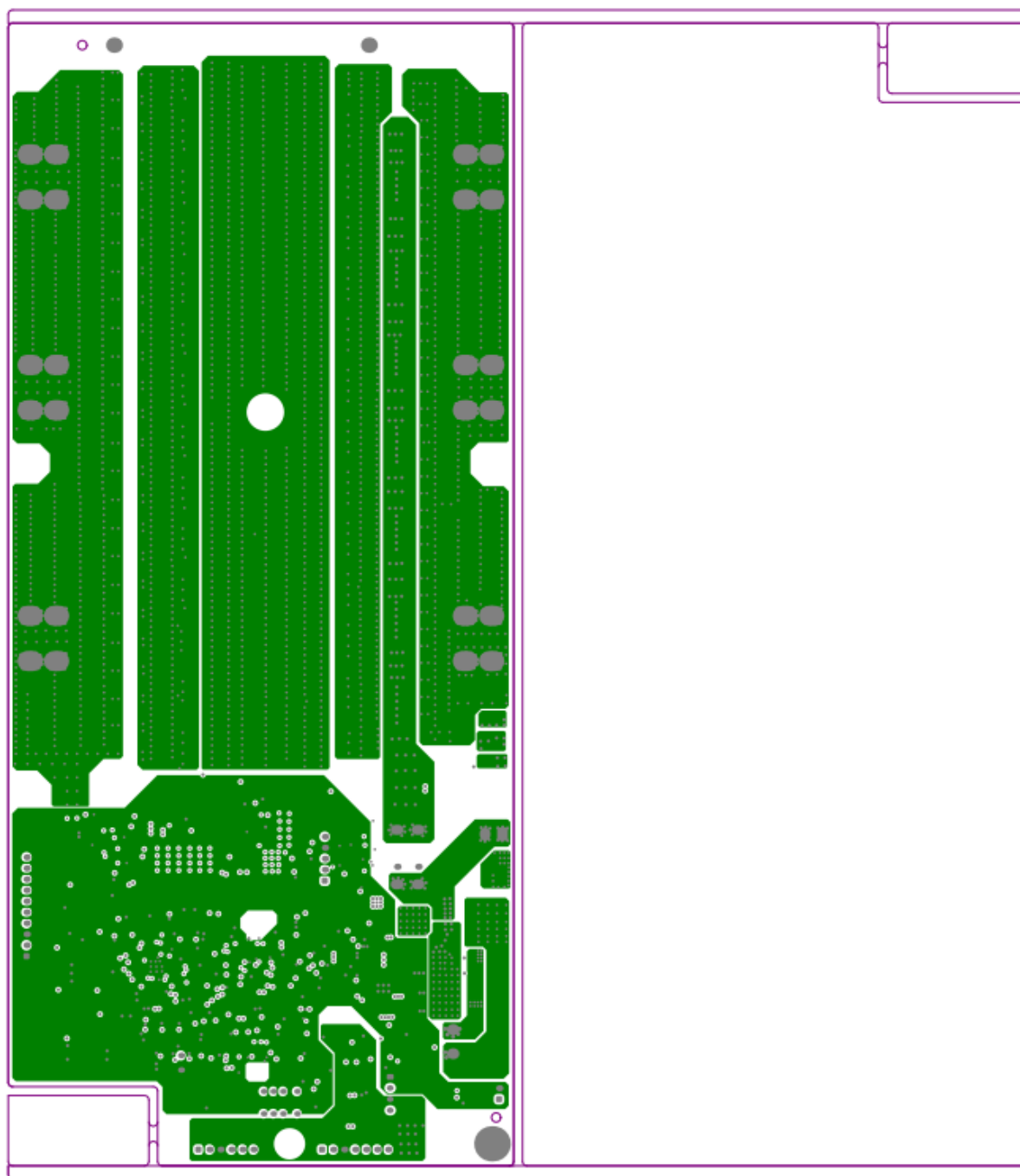
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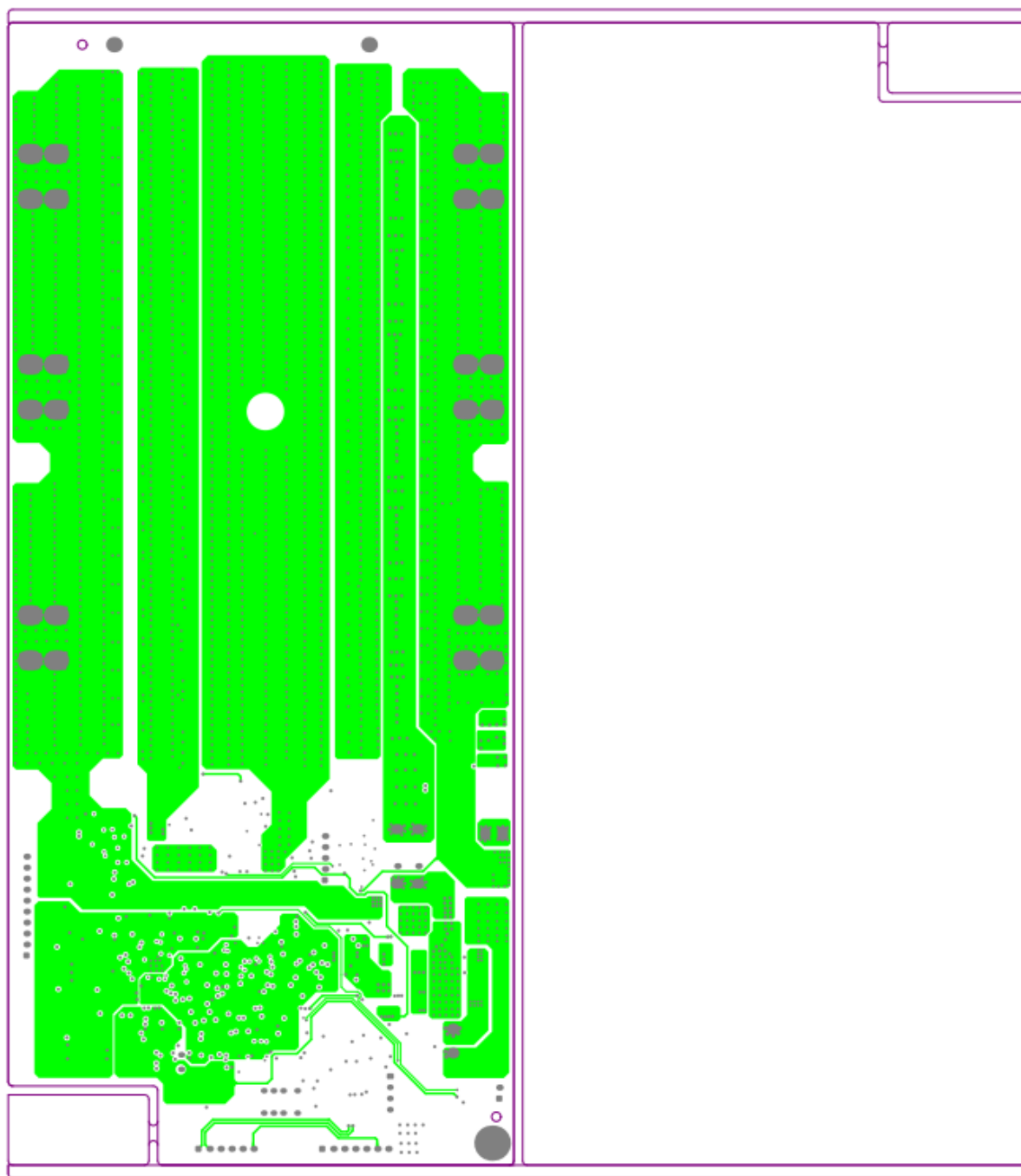
Manufacturer : Enerblok Co., Ltd.

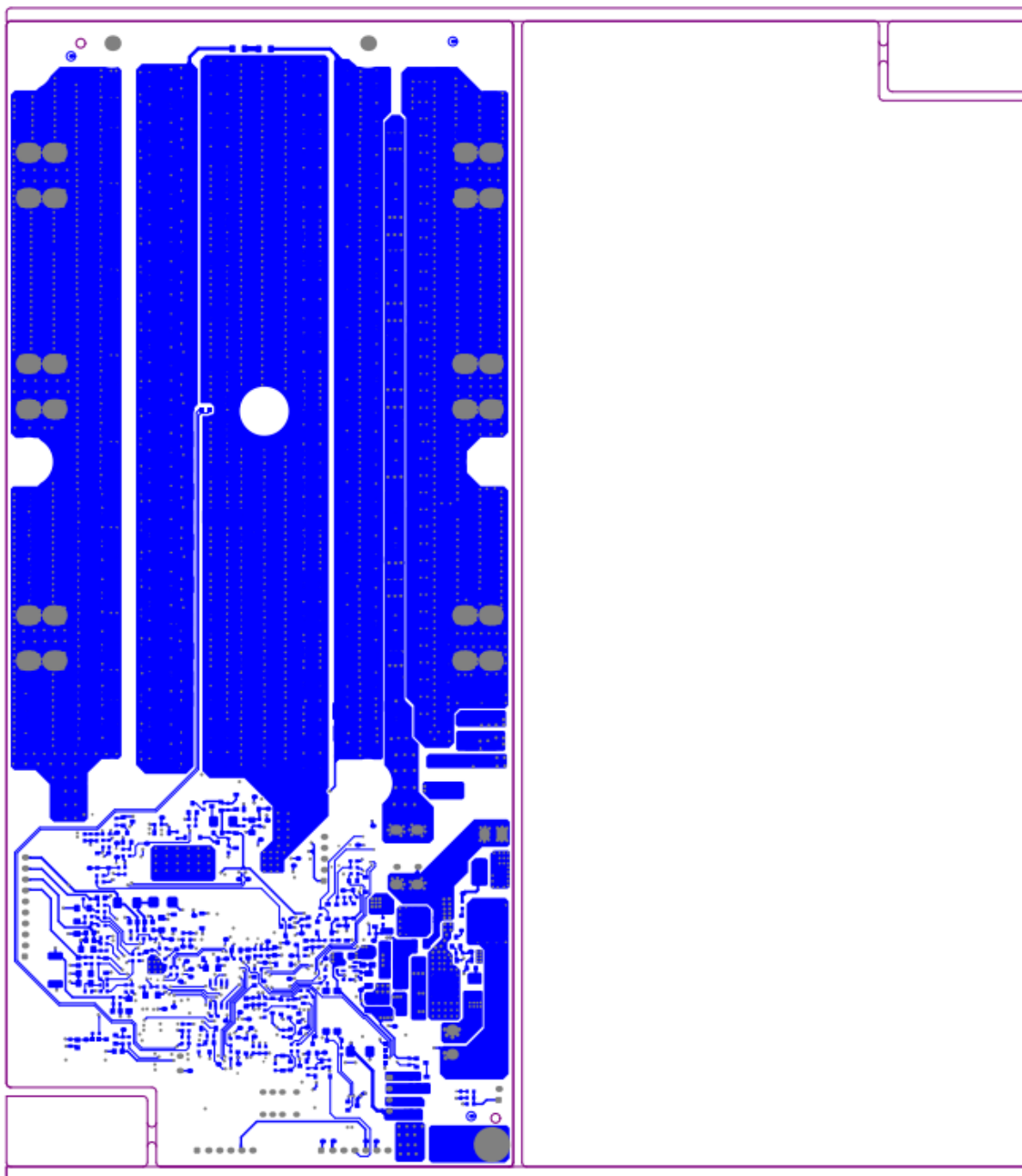
Regulation : R10.06 to Supplement 3

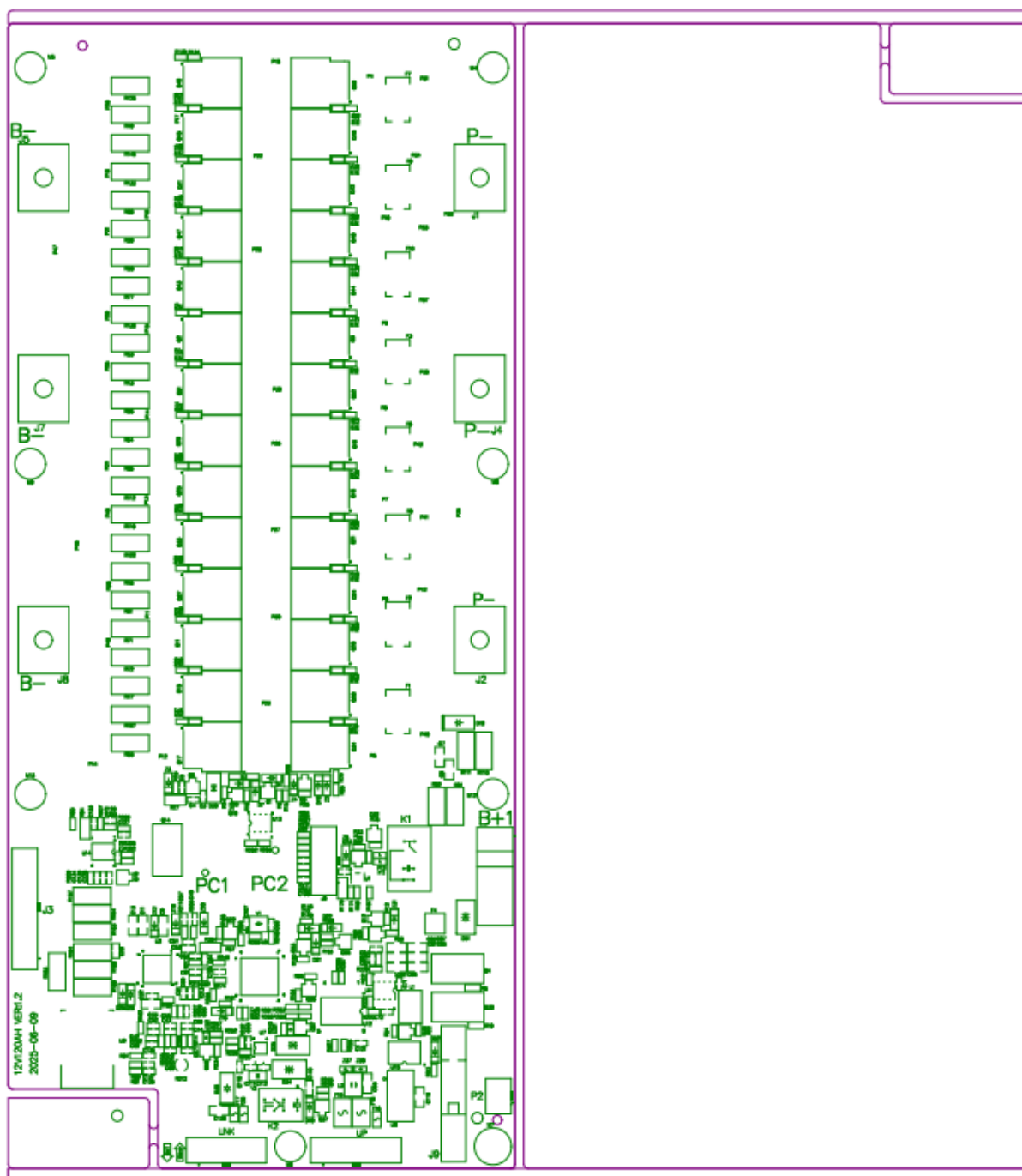


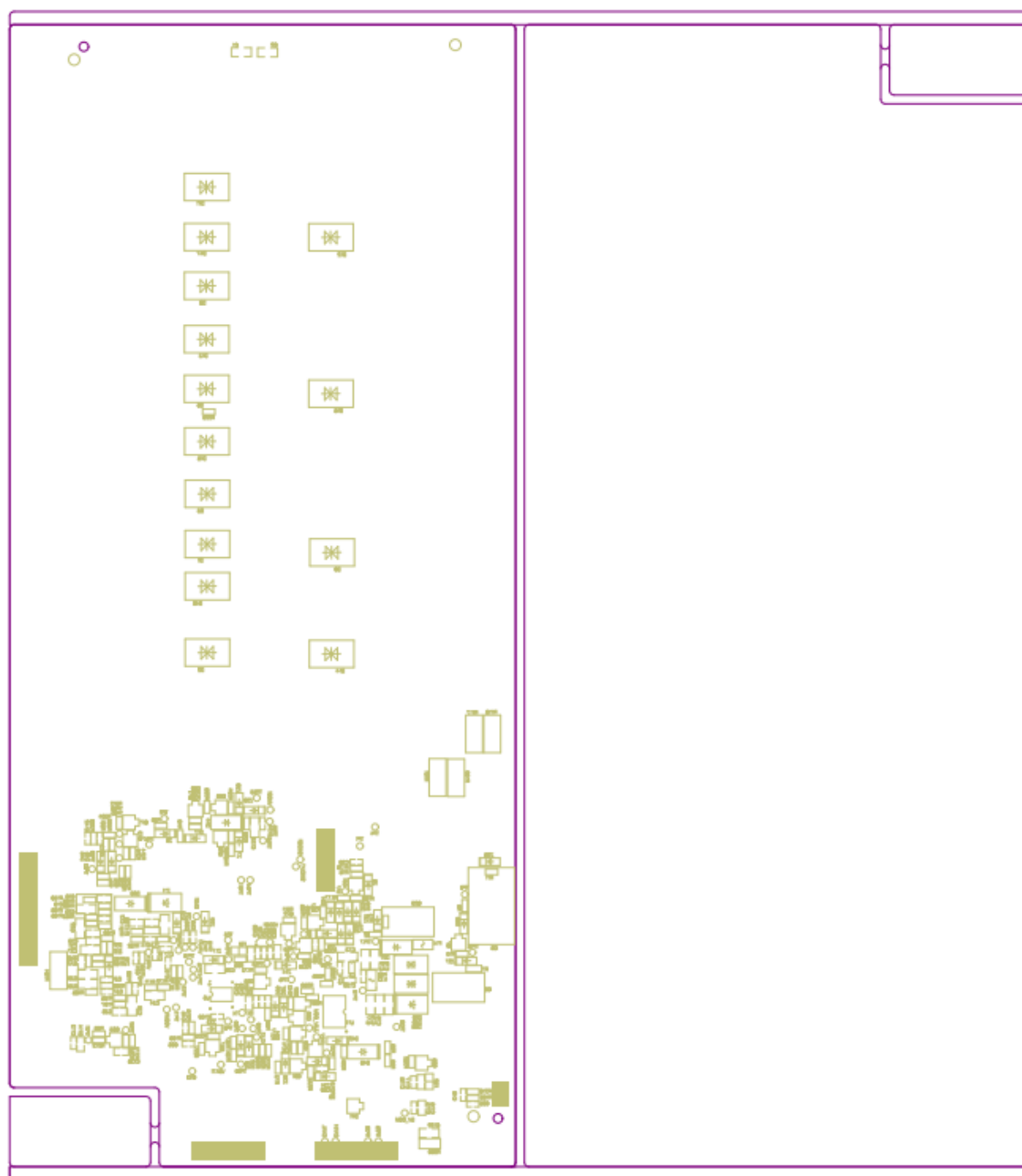


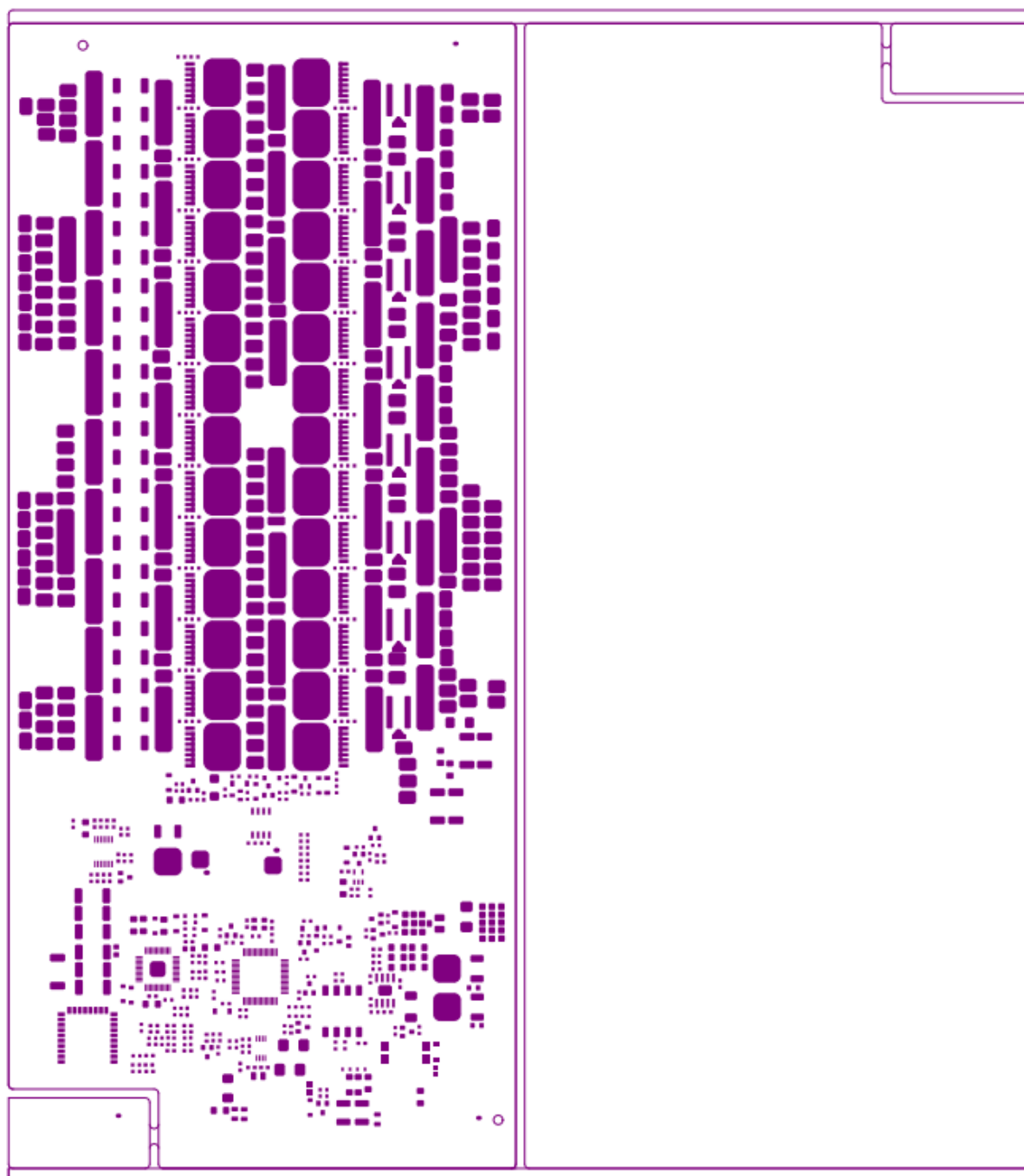


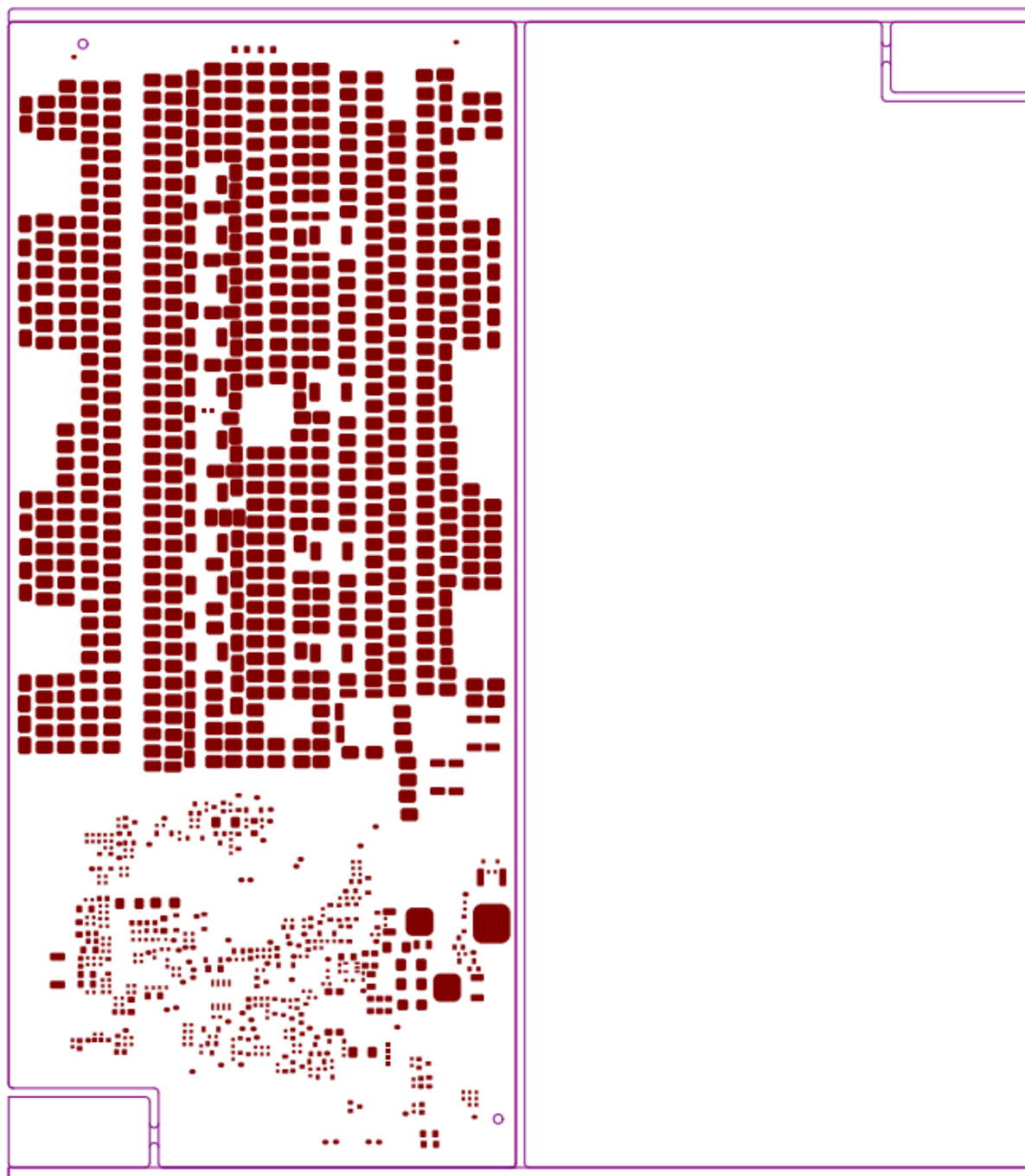


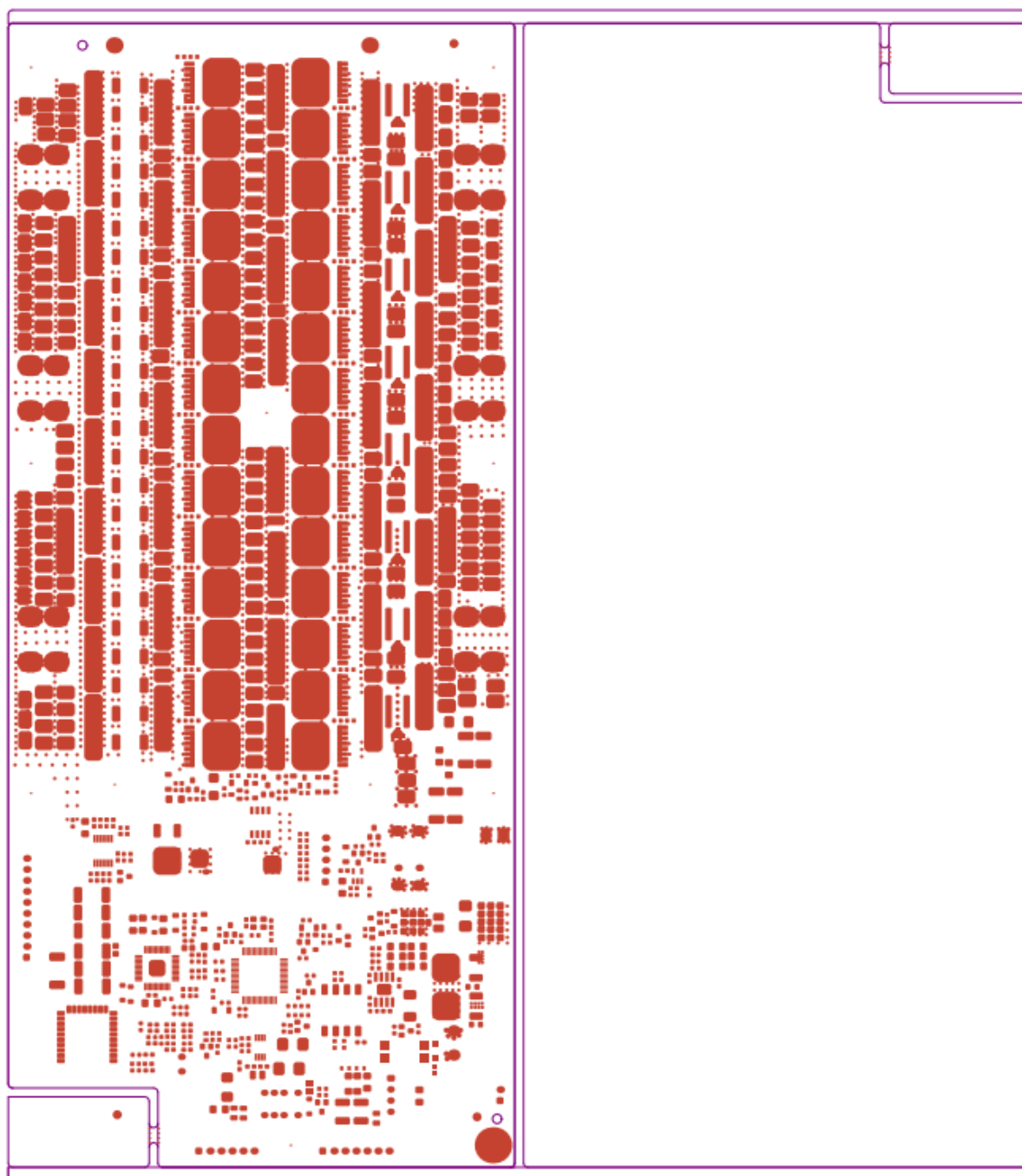




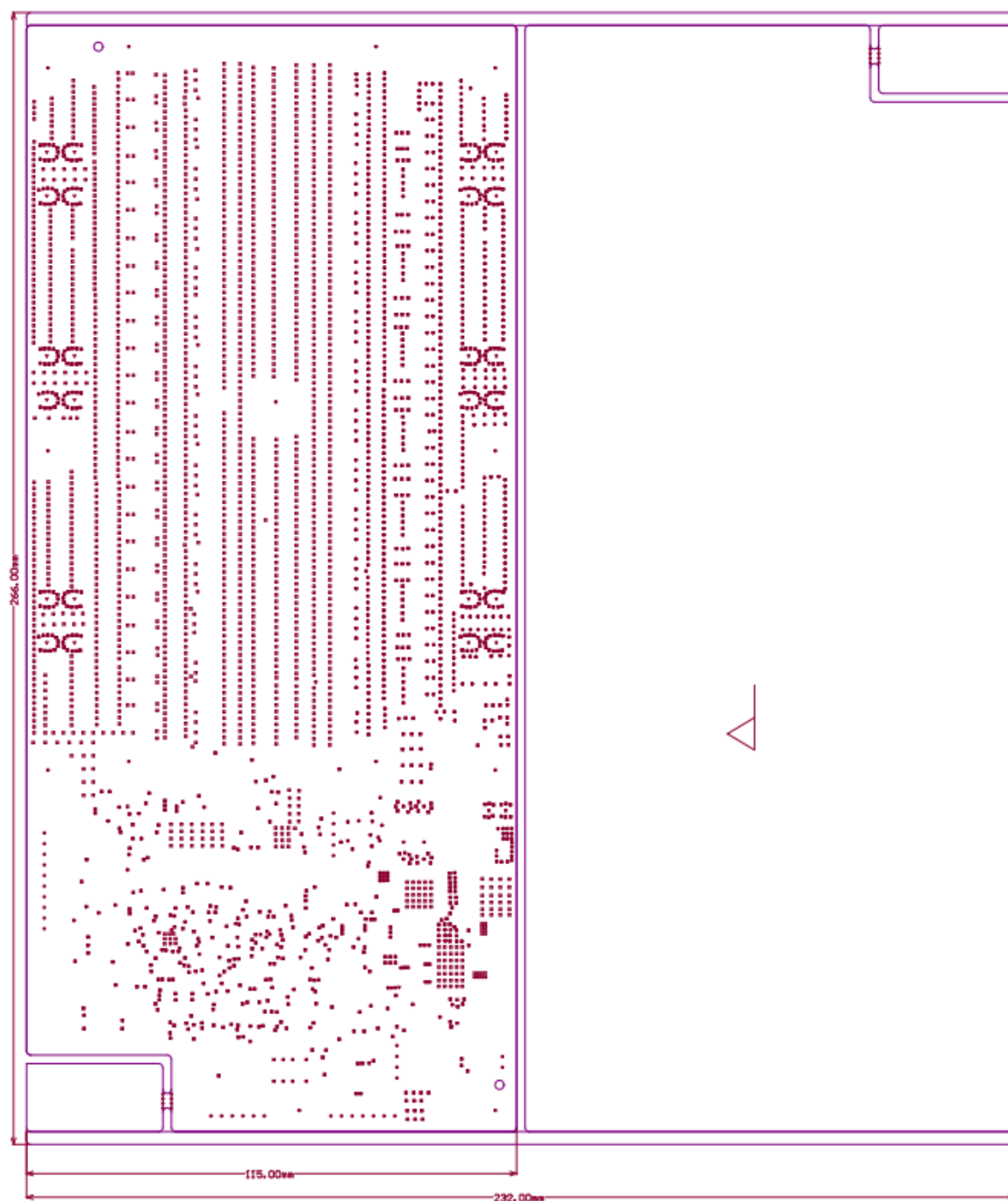












List of main component constituting the ESA

Name	Specification	Qty.
Metal Enclosure	AL5052, 325*187*188mm Thickness: 2.0mm	1
Metal Enclosure	AL5052, 325*188*15.5mm Thickness: 2.0mm	1
Insulation sheet	Thickness:1.0mm, 150°C, V-0	1
Internal wiring	Silicon 7AWG 200°C	6
Tubing/ Sleeving	600V, Temperature Rating: 125°C, VW-1	17
Cell inter-connection Busbar	Thickness: 2.0mm	5
Connector(+)	PA66+H62, 200A, 1000V DC	1
Connector(-)	PA66+H62, 200A, 1000V DC	1
Printed Wiring Board	Thickness: 1.6mm, v-0, 150° C	1
Fuse external to BMS (Position: F1, F2, F3, F6, F7, F9)	60A_100V	6
NTC(Position: J3)	10K 1% B25/50: 3950K	1
Control IC (Position: U5)	Automotive 32-bit MCU M4F 512K -40°C~125°C LQFP64	1
MOSFET (Position: Q2, Q3, Q11, Q15, Q16, Q17, Q18, Q20, Q21, Q24, Q25, Q26, Q27, Q28, Q33, Q34, Q41, Q42, Q43, Q44, Q45, Q46, Q47, Q48, Q49, Q50, Q51, Q52)	100V, 370A, 1.2mΩ	28
Current sensing resistor (Position: R39, R43, R46, R47, R49, R53, R56, R58, R61, R64, R65, R68, R71, R72, R77, R83, R107, R112, R119, R122, R125, R130, R133, R145)	1mΩ 1% 3W	24
Heater	14.4V 80W	1
Cells	3.2Vd.c., 120Ah	4