



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dell'omologazione Approval extended Il rifiuto dell'omologazione Approval refused La revoca dell'omologazione Approval withdrawn La cessazione definitiva della produzione Production definitively discontinued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*1839	Estensione N. Extension No.	00
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Marchio di omologazione Approval mark	 10R-06 1839
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1. Make (trade name of manufacturer):



2. Type and general commercial description(s):

Type: RBT12300LFP-M
general commercial description(s):
DEEP CYCLE LITHIUM IRON PHOSPHATE

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-10-27023
12. Remarks (if any): See appendix below
13. Place: Dogana – Repubblica di San Marino
14. Date: 10/11/2025
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*1839*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*1839*00		
Indice del fascicolo di omologazione <i>Index to the information package</i>				
Data <i>Date of issue</i>		10/11/2025	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-10-27023	Data <i>Date</i>	29/10/2025
3.	Scheda informativa N. <i>Information document No.</i>	RBT12300LFP-M-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

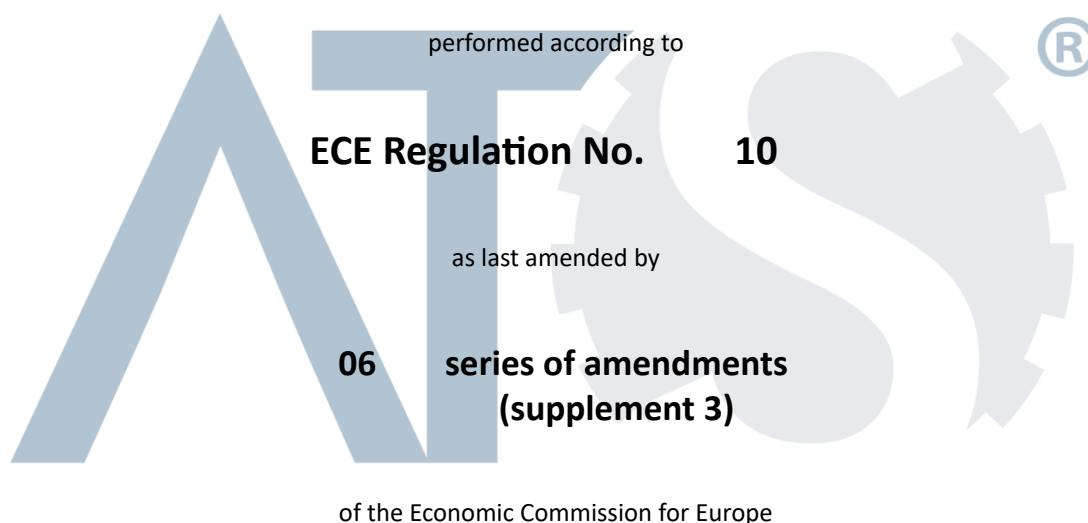
*This approval can be appealed within one month after notification. The appeal is to be filed in writing or as a transcript at the **Authority for Homologation** – Via III Settembre, 99 - 47891 Dogana - Repubblica di San Marino.*

Inspection Report

No. ATS-SM-IR-10-27023

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*1839*00

Of: 29/10/2025

Type: RBT12300LFP-M

Manufacturer: Enerblok Co., Ltd.

0. General information

0.1. Make (trade name of manufacturer):



0.2. Type:

RBT12300LFP-M

0.2.1. Variant(s):

RBT12300LFP-M, RBT12100LFP-M, RBT12200LFP-M

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):

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

0.4. Information document:

No: RBT12300LFP-M-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

1. Tested object(s)**1.1 Worst case configuration:
(justification of the determination)**

All variants have the same Electrical schematic diagram, Product topology design and Product structure. The differences among them are the different battery models, using cells of different capacities for different battery models and different total energy for different battery models.
Model RBT12300LFP-M was tested.
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**

RBT12300LFP-M, RBT12100LFP-M, RBT12200LFP-M

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: RBT12300LFP-M

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: RBT12300LFP-M

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	RBT12300LFP-M-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.

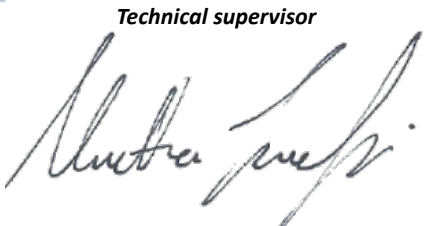
The tested object complies / ~~not complies~~ with the prescriptions of the R10-06 ECE/UN.

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-27023	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:	DEEP CYCLE LITHIUM IRON PHOSPHATE
1.2.	Type:	RBT12300LFP-M
1.2.1.	Variants:	RBT12300LFP-M, RBT12100LFP-M, RBT12200LFP-M
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

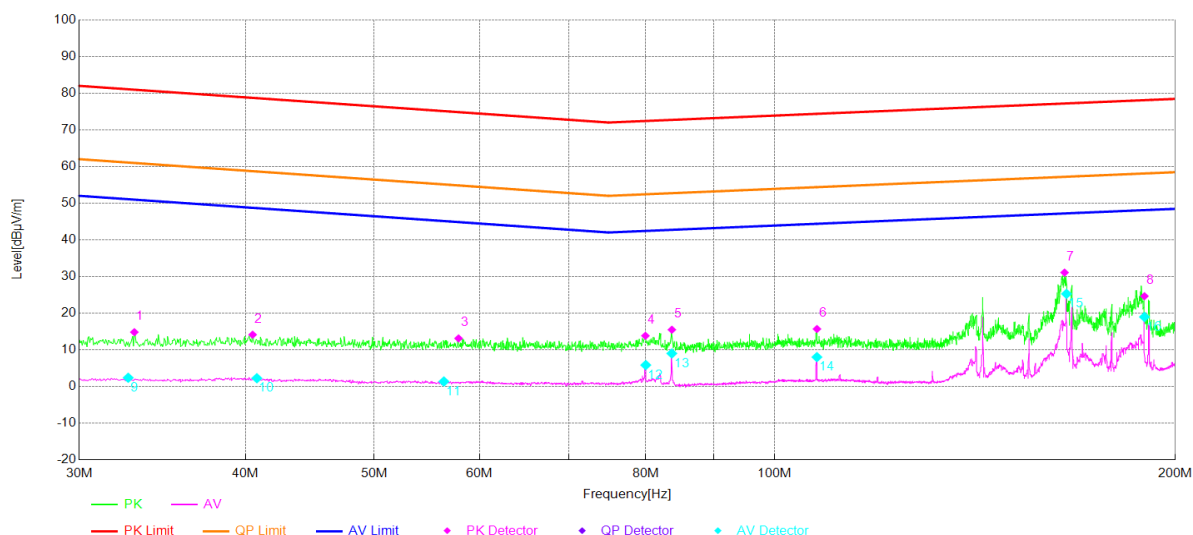
Antenna position : horizontal and vertical

Rated voltage : DC 12 V



Charging

Horizontal Polarity Test Result Diagram (Broadband and Narrow band)

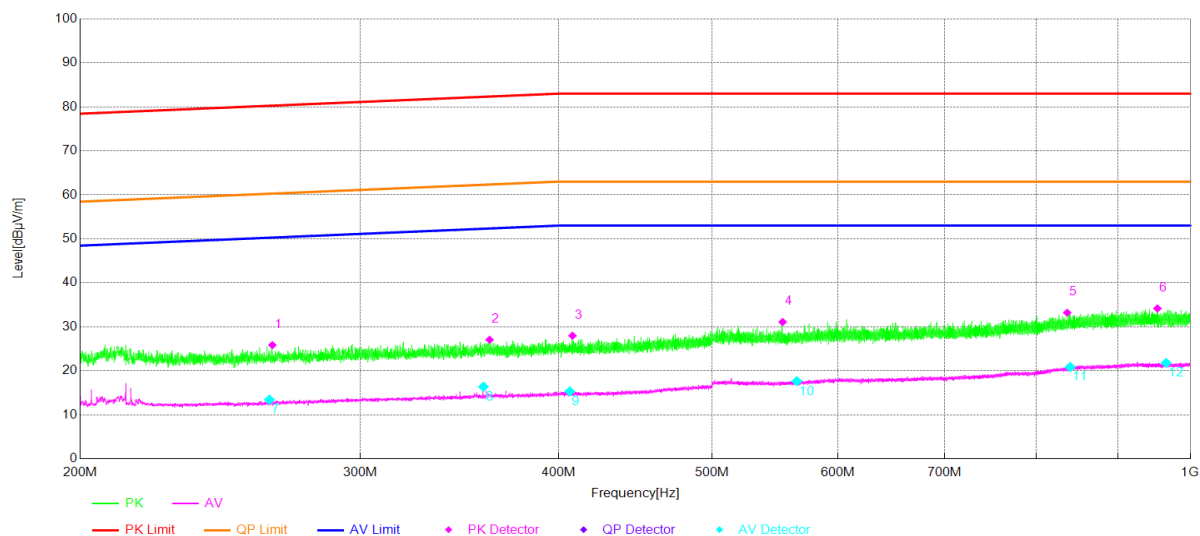


NO.	Band	Frequency [Hz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Detector	Instrument	Verdict
1	NONE	33M	14.80	12.95	80.96	66.16	PK	Horizontal	PASS
2	NONE	40.5M	14.10	13.01	78.72	64.62	PK	Horizontal	PASS
3	NONE	57.85M	13.09	11.89	74.83	61.74	PK	Horizontal	PASS
4	NONE	79.95M	13.81	11.21	72.42	58.61	PK	Horizontal	PASS
5	NONE	83.7M	15.46	11.15	72.72	57.26	PK	Horizontal	PASS
6	NONE	107.6M	15.66	11.83	74.37	58.71	PK	Horizontal	PASS
7	NONE	165.2M	31.06	13.31	77.19	46.13	PK	Horizontal	PASS
8	NONE	189.7M	24.61	14.07	78.10	53.49	PK	Horizontal	PASS
9	NONE	32.65M	2.35	12.95	51.08	48.73	AV	Horizontal	PASS
10	NONE	40.8M	2.23	12.99	48.64	46.41	AV	Horizontal	PASS
11	NONE	56.4M	1.33	11.93	45.11	43.78	AV	Horizontal	PASS
12	NONE	80M	5.82	11.21	42.42	36.60	AV	Horizontal	PASS
13	NONE	83.7M	8.99	11.15	42.72	33.73	AV	Horizontal	PASS
14	NONE	107.6M	7.99	11.83	44.37	36.38	AV	Horizontal	PASS
15	NONE	165.75M	25.24	13.30	47.21	21.97	AV	Horizontal	PASS
16	NONE	189.7M	18.95	14.07	48.10	29.15	AV	Horizontal	PASS

Of: 29/10/2025

Type: RBT12300LFP-M

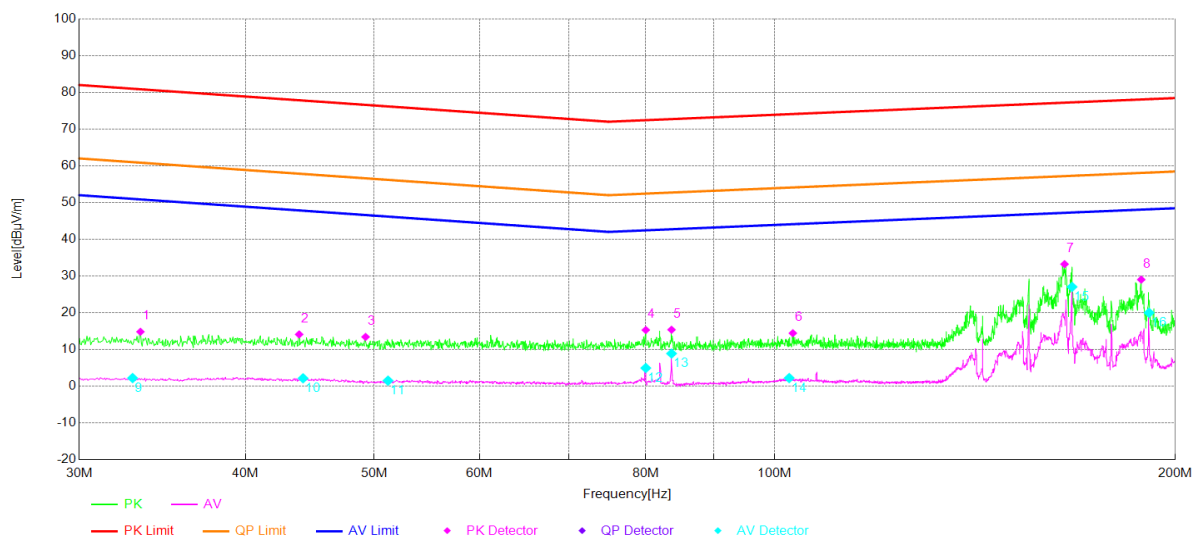
Manufacturer: Enerblok Co., Ltd.



NO.	Band	Frequency [Hz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Detector	Instrument	Verdict
1	NONE	264.2M	25.82	14.35	80.27	54.45	PK	Horizontal	PASS
2	NONE	362M	27.05	15.73	82.34	55.29	PK	Horizontal	PASS
3	NONE	408.25M	27.96	16.37	83.00	55.04	PK	Horizontal	PASS
4	NONE	553.65M	31.08	17.74	83.00	51.92	PK	Horizontal	PASS
5	NONE	836.45M	33.20	20.46	83.00	49.80	PK	Horizontal	PASS
6	NONE	953.4M	34.16	20.93	83.00	48.84	PK	Horizontal	PASS
7	NONE	263.1M	13.40	14.32	50.25	36.85	AV	Horizontal	PASS
8	NONE	358.8M	16.37	15.68	52.29	35.92	AV	Horizontal	PASS
9	NONE	406.65M	15.28	16.36	53.00	37.72	AV	Horizontal	PASS
10	NONE	565.2M	17.62	17.91	53.00	35.38	AV	Horizontal	PASS
11	NONE	840.05M	20.83	20.55	53.00	32.17	AV	Horizontal	PASS
12	NONE	965.6M	21.77	20.95	53.00	31.23	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)

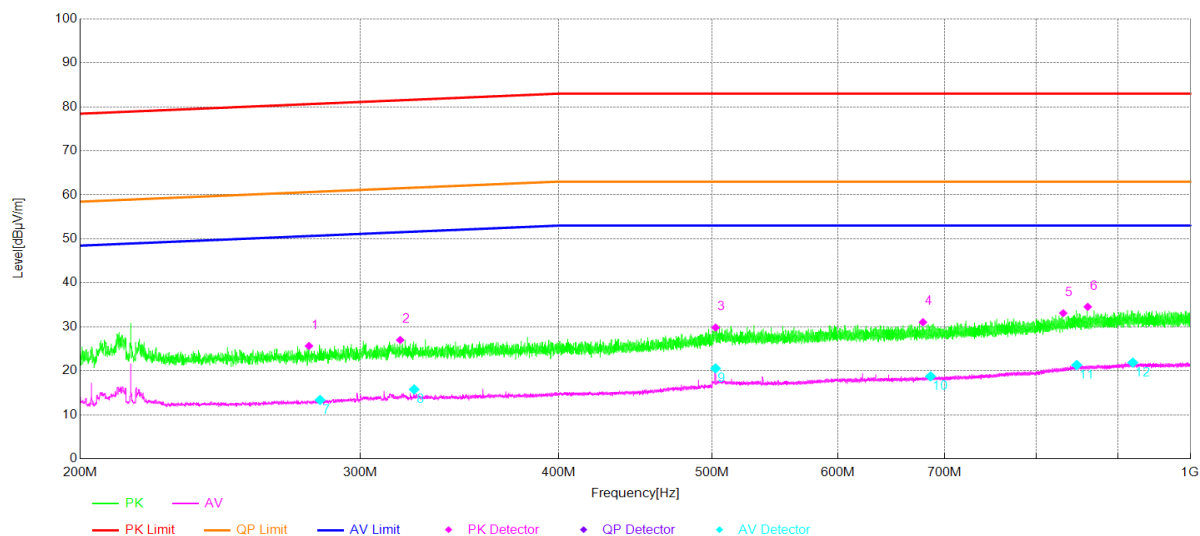


NO.	Band	Frequency [Hz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Detector	Instrument	Verdict
1	NONE	33.35M	14.80	12.94	80.84	66.04	PK	Vertical	PASS
2	NONE	43.9M	14.08	12.76	77.85	63.77	PK	Vertical	PASS
3	NONE	49.25M	13.39	12.19	76.59	63.20	PK	Vertical	PASS
4	NONE	80M	15.27	11.21	72.42	57.15	PK	Vertical	PASS
5	NONE	83.65M	15.35	11.15	72.72	57.37	PK	Vertical	PASS
6	NONE	103.2M	14.40	11.80	74.10	59.70	PK	Vertical	PASS
7	NONE	165.2M	33.21	13.31	77.19	43.98	PK	Vertical	PASS
8	NONE	188.65M	28.99	14.15	78.06	49.07	PK	Vertical	PASS
9	NONE	32.9M	2.19	12.95	50.99	48.80	AV	Vertical	PASS
10	NONE	44.2M	2.13	12.74	47.77	45.64	AV	Vertical	PASS
11	NONE	51.2M	1.47	12.07	46.17	44.70	AV	Vertical	PASS
12	NONE	80M	4.92	11.21	42.42	37.50	AV	Vertical	PASS
13	NONE	83.65M	8.87	11.15	42.72	33.85	AV	Vertical	PASS
14	NONE	102.55M	2.19	11.77	44.06	41.87	AV	Vertical	PASS
15	NONE	167.35M	27.02	13.27	47.27	20.25	AV	Vertical	PASS
16	NONE	191.25M	19.97	14.15	48.15	28.18	AV	Vertical	PASS

Of: 29/10/2025

Type: RBT12300LFP-M

Manufacturer: Enerblok Co., Ltd.

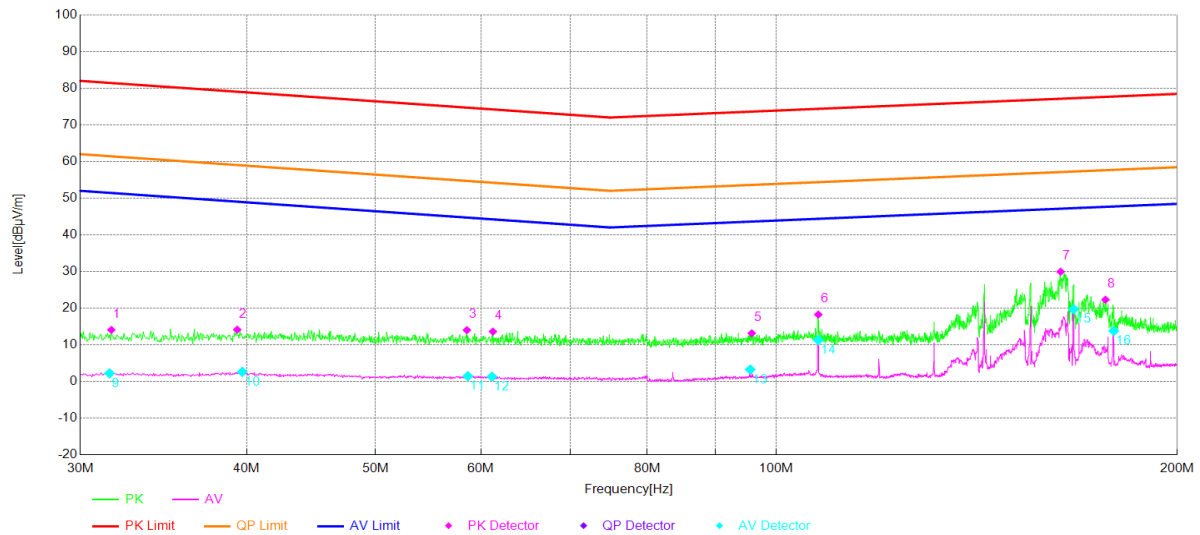


NO.	Band	Frequency [Hz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Detector	Instrument	Verdict
1	NONE	278.6M	25.63	14.66	80.62	54.99	PK	Vertical	PASS
2	NONE	318M	26.99	15.28	81.49	54.50	PK	Vertical	PASS
3	NONE	502.4M	29.82	17.71	83.00	53.18	PK	Vertical	PASS
4	NONE	678.6M	31.04	18.82	83.00	51.96	PK	Vertical	PASS
5	NONE	831.65M	33.08	20.35	83.00	49.92	PK	Vertical	PASS
6	NONE	861.75M	34.52	20.80	83.00	48.48	PK	Vertical	PASS
7	NONE	283.1M	13.35	14.76	50.73	37.38	AV	Vertical	PASS
8	NONE	324.5M	15.76	15.34	51.63	35.87	AV	Vertical	PASS
9	NONE	502.4M	20.52	17.71	53.00	32.48	AV	Vertical	PASS
10	NONE	686.1M	18.72	18.87	53.00	34.28	AV	Vertical	PASS
11	NONE	848.15M	21.30	20.74	53.00	31.70	AV	Vertical	PASS
12	NONE	919.95M	21.85	20.89	53.00	31.15	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)

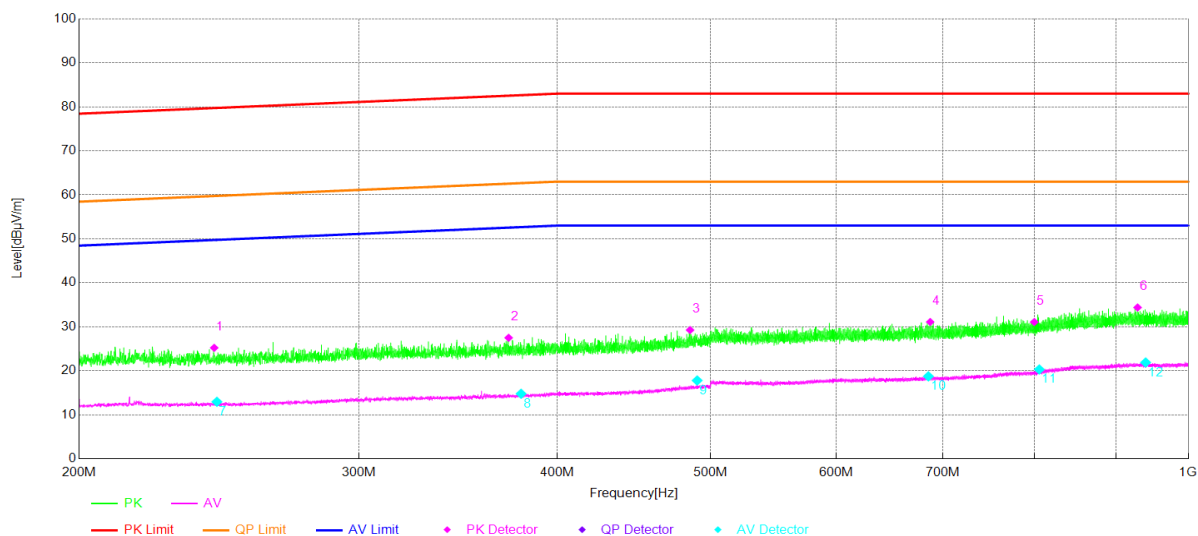


NO.	Band	Frequency [Hz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Detector	Instrument	Verdict
1	NONE	31.65M	14.05	12.97	81.42	67.37	PK	Horizontal	PASS
2	NONE	39.35M	14.12	13.03	79.04	64.92	PK	Horizontal	PASS
3	NONE	58.55M	13.98	11.87	74.70	60.72	PK	Horizontal	PASS
4	NONE	61.25M	13.59	11.73	74.21	60.62	PK	Horizontal	PASS
5	NONE	95.85M	13.13	11.65	73.61	60.48	PK	Horizontal	PASS
6	NONE	107.55M	18.24	11.83	74.37	56.13	PK	Horizontal	PASS
7	NONE	163.55M	29.93	13.22	77.12	47.19	PK	Horizontal	PASS
8	NONE	176.75M	22.28	13.67	77.63	55.35	PK	Horizontal	PASS
9	NONE	31.55M	2.21	12.97	51.45	49.24	AV	Horizontal	PASS
10	NONE	39.7M	2.59	13.04	48.94	46.35	AV	Horizontal	PASS
11	NONE	58.65M	1.42	11.87	44.68	43.26	AV	Horizontal	PASS
12	NONE	61.15M	1.29	11.74	44.23	42.94	AV	Horizontal	PASS
13	NONE	95.6M	3.23	11.65	43.59	40.36	AV	Horizontal	PASS
14	NONE	107.55M	11.27	11.83	44.37	33.10	AV	Horizontal	PASS
15	NONE	167.3M	19.70	13.27	47.27	27.57	AV	Horizontal	PASS
16	NONE	179.3M	13.76	14.03	47.73	33.97	AV	Horizontal	PASS

Of: 29/10/2025

Type: RBT12300LFP-M

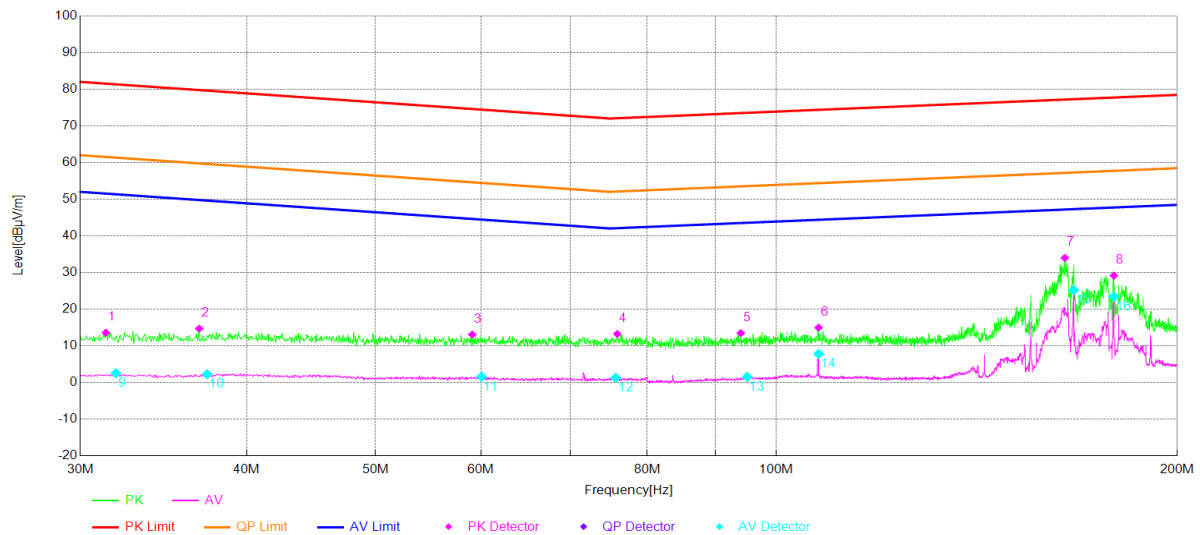
Manufacturer: Enerblok Co., Ltd.



NO.	Band	Frequency [Hz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Detector	Instrument	Verdict
1	NONE	243.25M	25.21	14.01	79.73	54.52	PK	Horizontal	PASS
2	NONE	372.9M	27.49	15.90	82.54	55.05	PK	Horizontal	PASS
3	NONE	485.2M	29.25	17.39	83.00	53.75	PK	Horizontal	PASS
4	NONE	687.5M	31.09	18.88	83.00	51.91	PK	Horizontal	PASS
5	NONE	799.65M	31.08	19.60	83.00	51.92	PK	Horizontal	PASS
6	NONE	928.9M	34.38	20.90	83.00	48.62	PK	Horizontal	PASS
7	NONE	244.2M	12.93	14.01	49.76	36.83	AV	Horizontal	PASS
8	NONE	379.7M	14.76	16.00	52.66	37.90	AV	Horizontal	PASS
9	NONE	490.25M	17.78	17.50	53.00	35.22	AV	Horizontal	PASS
10	NONE	685.7M	18.72	18.86	53.00	34.28	AV	Horizontal	PASS
11	NONE	805.45M	20.29	19.73	53.00	32.71	AV	Horizontal	PASS
12	NONE	939.8M	21.87	20.92	53.00	31.13	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)

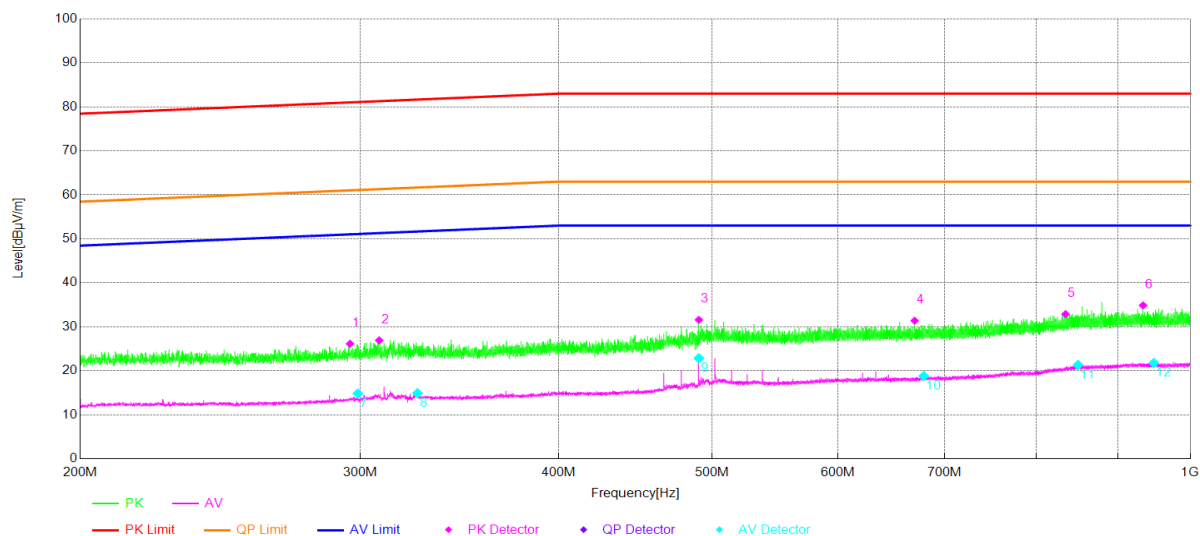


NO.	Band	Frequency [Hz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Detector	Instrument	Verdict
1	NONE	31.35M	13.56	12.98	81.52	67.96	PK	Vertical	PASS
2	NONE	36.85M	14.67	12.96	79.76	65.09	PK	Vertical	PASS
3	NONE	59.1M	13.06	11.85	74.60	61.54	PK	Vertical	PASS
4	NONE	75.95M	13.22	11.11	72.08	58.86	PK	Vertical	PASS
5	NONE	94.05M	13.44	11.59	73.49	60.05	PK	Vertical	PASS
6	NONE	107.6M	14.95	11.83	74.37	59.42	PK	Vertical	PASS
7	NONE	164.75M	33.98	13.30	77.17	43.19	PK	Vertical	PASS
8	NONE	179.35M	29.14	14.04	77.73	48.59	PK	Vertical	PASS
9	NONE	31.9M	2.52	12.97	51.33	48.81	AV	Vertical	PASS
10	NONE	37.35M	2.22	12.98	49.61	47.39	AV	Vertical	PASS
11	NONE	60.05M	1.53	11.83	44.43	42.90	AV	Vertical	PASS
12	NONE	75.75M	1.25	11.10	42.07	40.82	AV	Vertical	PASS
13	NONE	95.1M	1.50	11.65	43.56	42.06	AV	Vertical	PASS
14	NONE	107.6M	7.77	11.83	44.37	36.60	AV	Vertical	PASS
15	NONE	167.35M	25.19	13.27	47.27	22.08	AV	Vertical	PASS
16	NONE	179.35M	23.42	14.04	47.73	24.31	AV	Vertical	PASS

Of: 29/10/2025

Type: RBT12300LFP-M

Manufacturer: Enerblok Co., Ltd.



NO.	Band	Frequency [Hz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Detector	Instrument	 Verdict
1	NONE	295.7M	26.13	15.04	81.01	54.88	PK	Vertical	PASS
2	NONE	308.45M	26.91	15.21	81.29	54.38	PK	Vertical	PASS
3	NONE	490.35M	31.57	17.50	83.00	51.43	PK	Vertical	PASS
4	NONE	670.5M	31.37	18.77	83.00	51.63	PK	Vertical	PASS
5	NONE	834.4M	32.88	20.42	83.00	50.12	PK	Vertical	PASS
6	NONE	933.75M	34.86	20.91	83.00	48.14	PK	Vertical	PASS
7	NONE	299.05M	14.82	15.12	51.09	36.27	AV	Vertical	PASS
8	NONE	326.05M	14.90	15.35	51.66	36.76	AV	Vertical	PASS
9	NONE	490.35M	22.84	17.50	53.00	30.16	AV	Vertical	PASS
10	NONE	679.4M	18.82	18.83	53.00	34.18	AV	Vertical	PASS
11	NONE	849.65M	21.33	20.78	53.00	31.67	AV	Vertical	PASS
12	NONE	948.3M	21.75	20.93	53.00	31.25	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

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: 2004

Charging

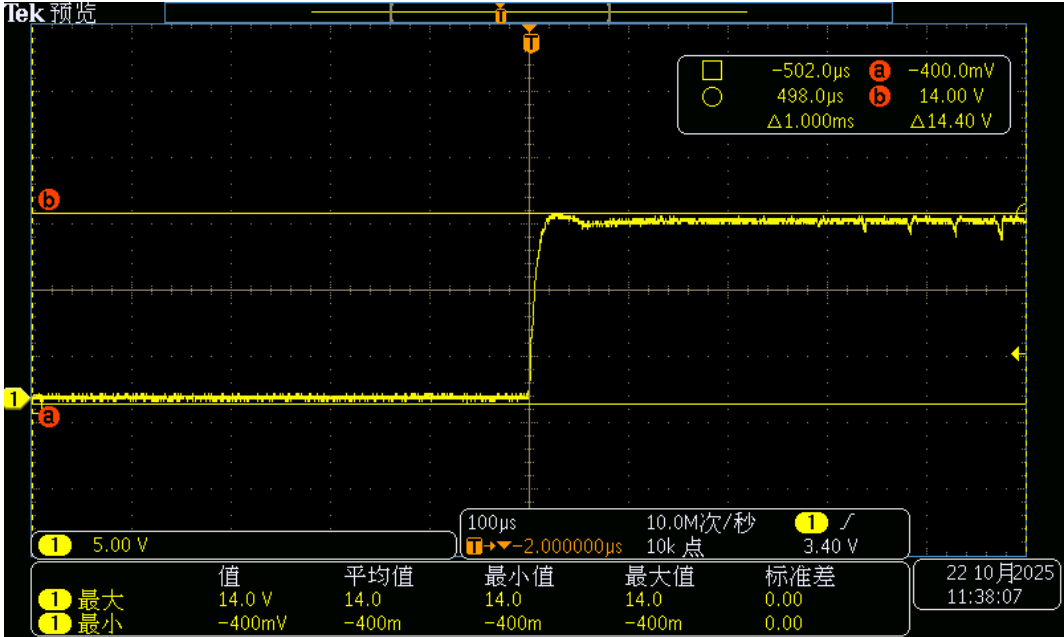
12V systems	Connection Disconnection Permanent	Polarity of pulse amplitude	Maximum allowed value for vehicles with 12V systems	Measured Pulse amplitude True Value
Slow	Switch off --> on	Positive	+75V	+0.50V
	Switch on -->off	Negative	-100V	-13.70 V
Fast	Switch off --> on	Positive	+75V	0.00 V
	Switch on -->off	Negative	-100V	-13.70V

Test data

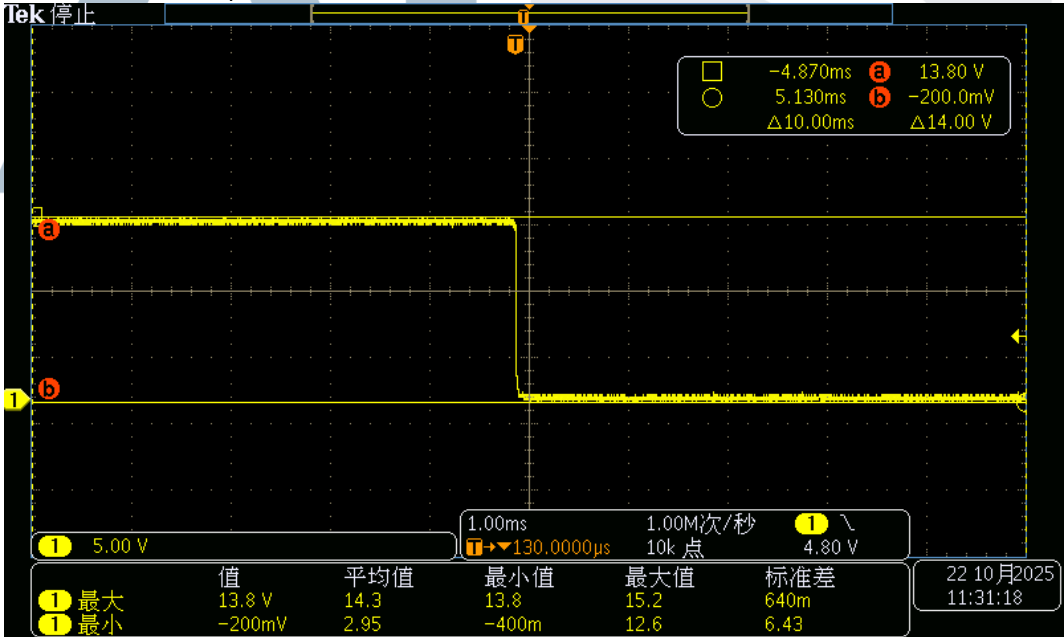
Appendix 2

Charging

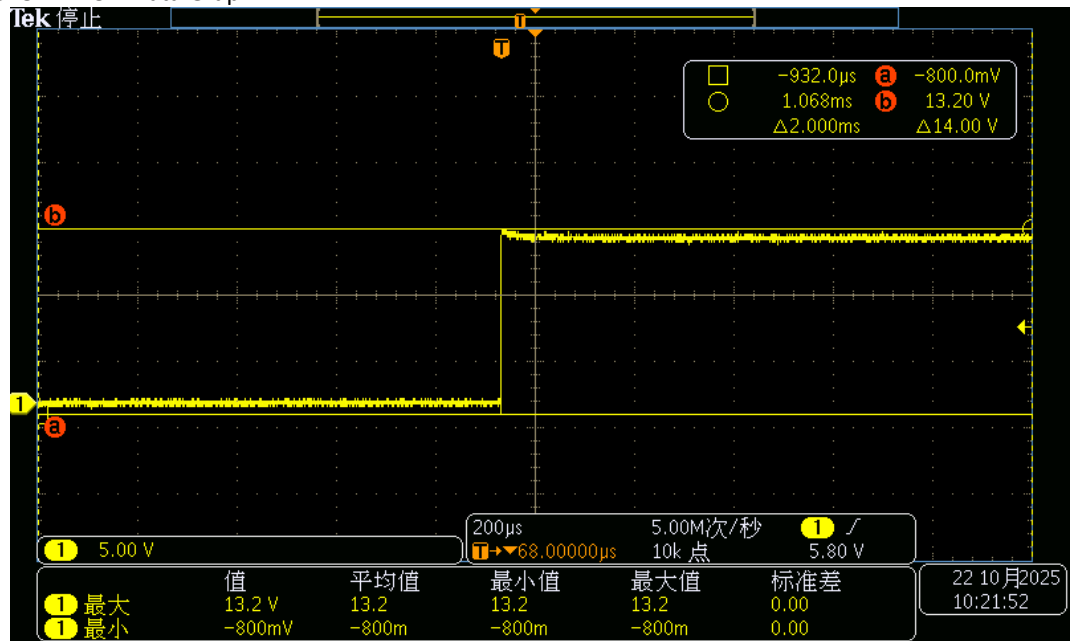
Slow Pulse: OFF-->ON Data Graph



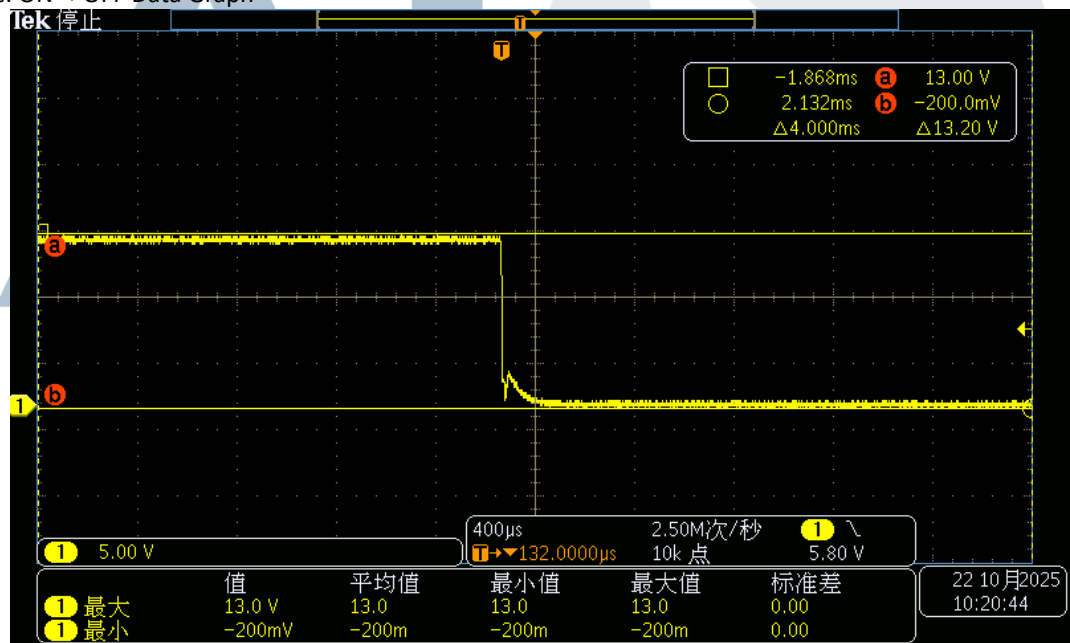
Slow Pulse: ON-->OFF Data Graph



Fast Pulse: OFF-->ON Data Graph



Fast Pulse: ON-->OFF Data Graph

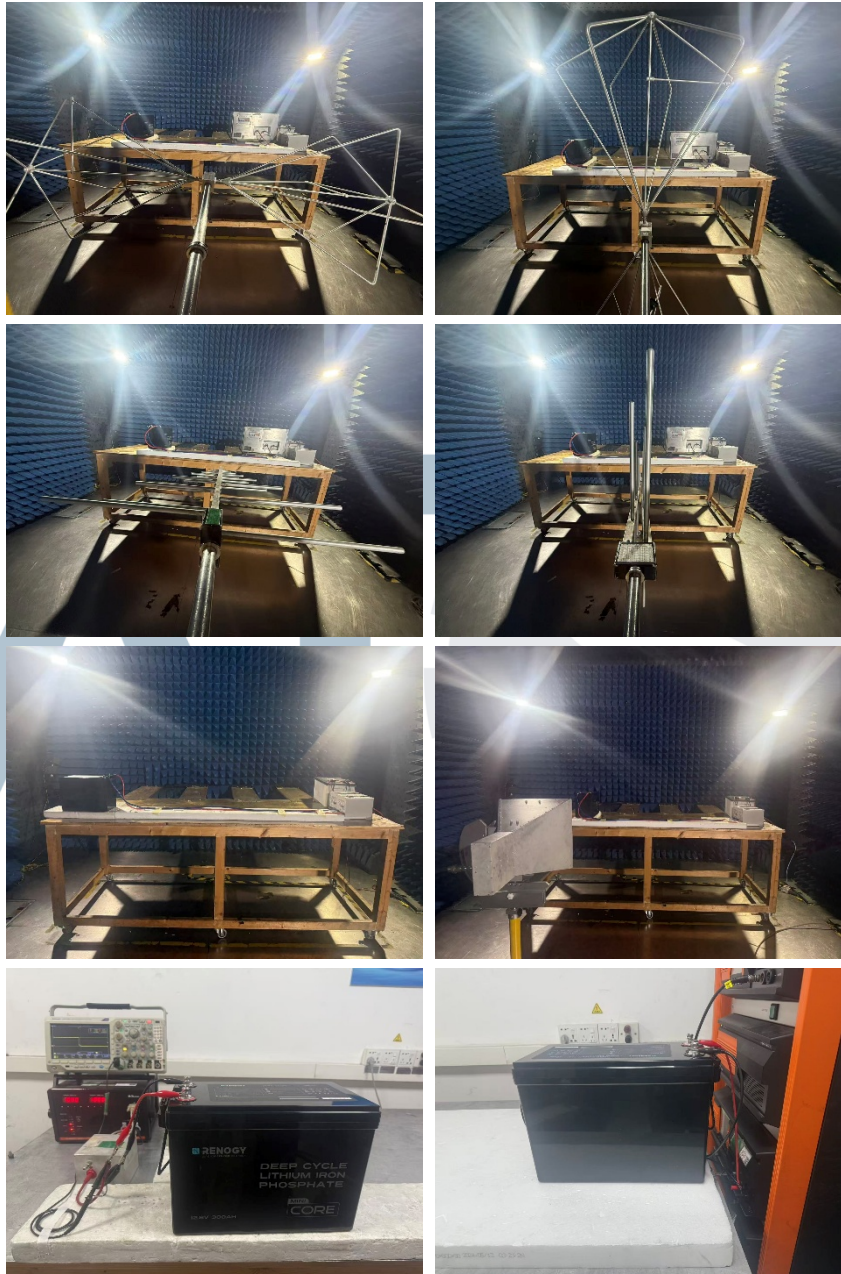


Appendix 3

Sample photos

Applicable / Not Applicable

Appendix 3



Appendix 4

List of main equipment

Applicable / ~~Not Applicable~~

Appendix 4

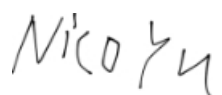
Equipment	Serial / Certificate No.	Calibration due*
ALSE ROOM	CN J202410254887A-0002	31/10/2025
Injection probe	CN Q12526510014	19/06/2026
L.I.S.N.	CN Q12526510011	19/06/2026
L.I.S.N.	CN Q12526510012	19/06/2026
Biconical antenna	CN Q32528330007A	29/06/2026
Log-periodic antenna	CN Q32528330005	29/06/2026
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. RBT12300LFP-M-00 relating to type-approval of an
electronic subassembly with respect to electromagnetic compatibility
(ECE Regulation 10.06 to Supplement 3)**

Type : RBT12300LFP-M

Manufacturer : Enerblok Co., Ltd.

Authorized person : 

Date : 22/10/2025

INDEX

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

GENERAL

1. Make (trade name of manufacturer):



2. Type: **RBT12300LFP-M**
Type **RBT12300LFP-M** has variants as below:
RBT12300LFP-M, RBT12100LFP-M, RBT12200LFP-M

Above variants have the same Electrical schematic diagram, Product topology design and Product structure. The differences among them are the different battery models, using cells of different capacities for different battery models and different total energy for different battery models.

General commercial description(s):
DEEP CYCLE LITHIUM IRON PHOSPHATE

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.

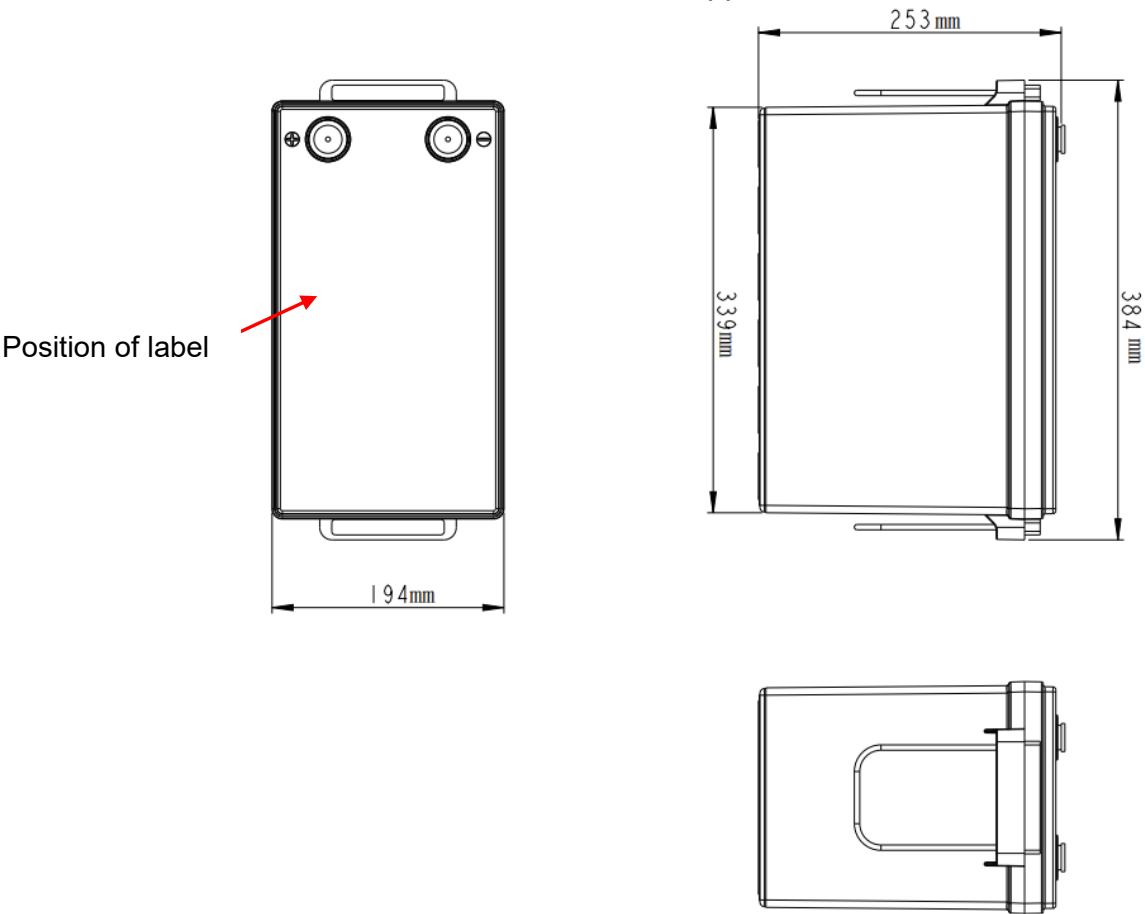
N/A

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

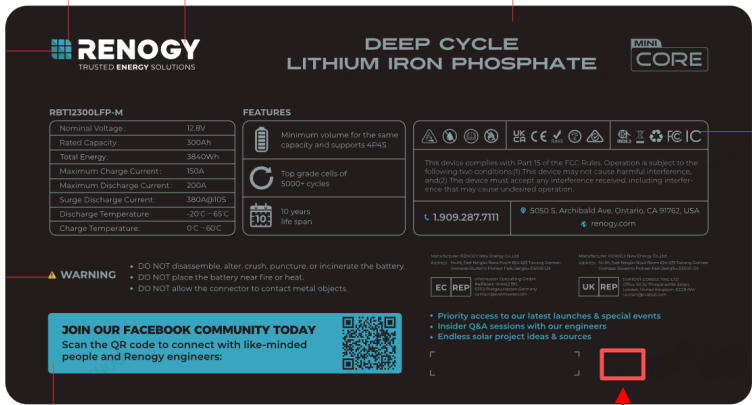
10. Charger:
N/A
11. Charging current:
N/A
12. Maximal nominal current (in each mode if necessary):
N/A
13. Nominal charging voltage:
N/A
14. Basic ESA interface functions:
N/A
15. Minimum R_{sce} value (see paragraph 7.11. of this Regulation):
N/A

Drawings of the ESA

Location of the ECE approval mark

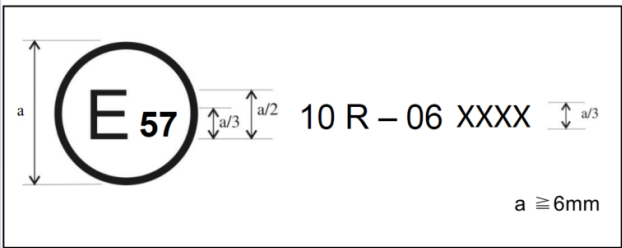


Example of label

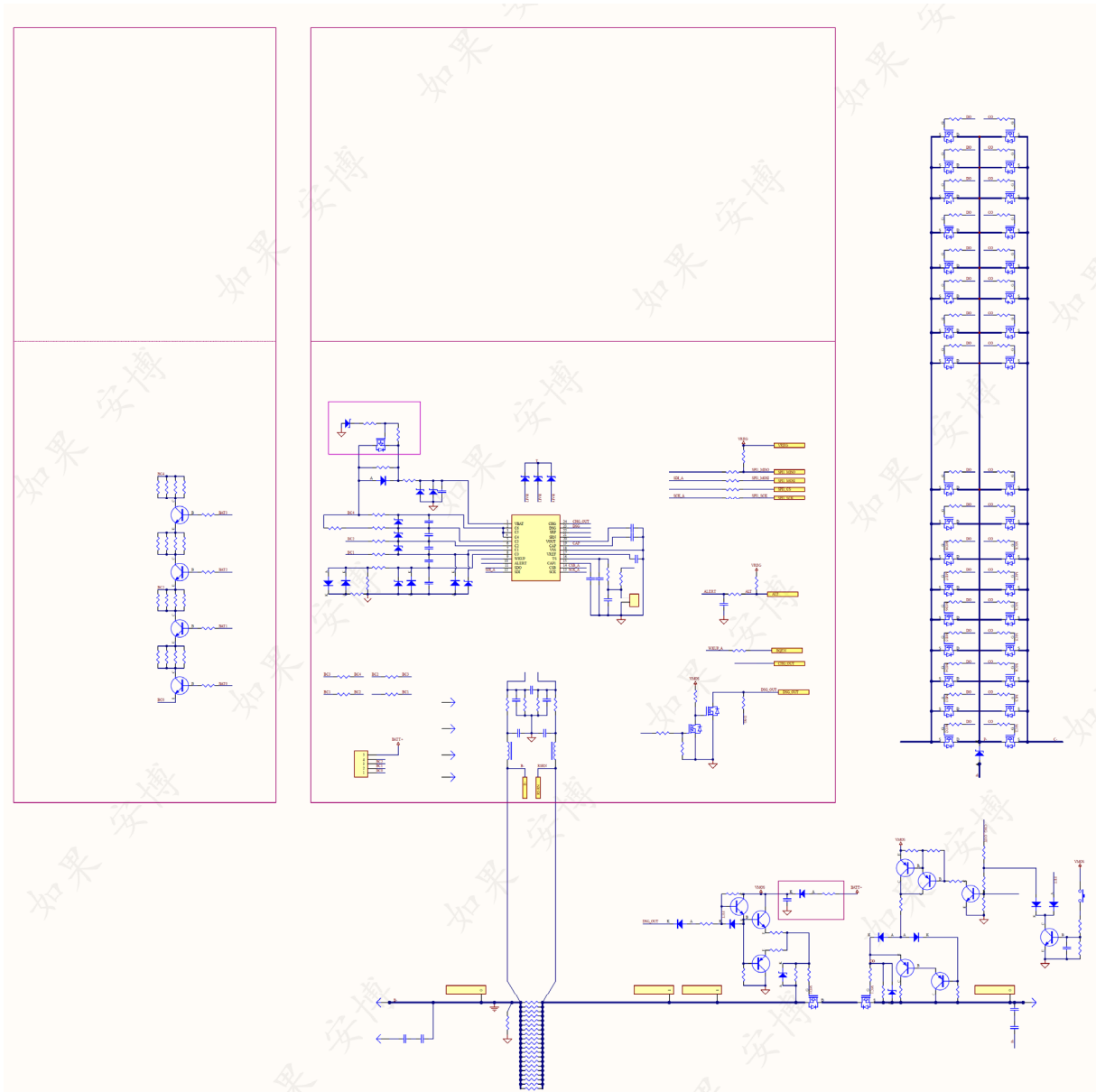


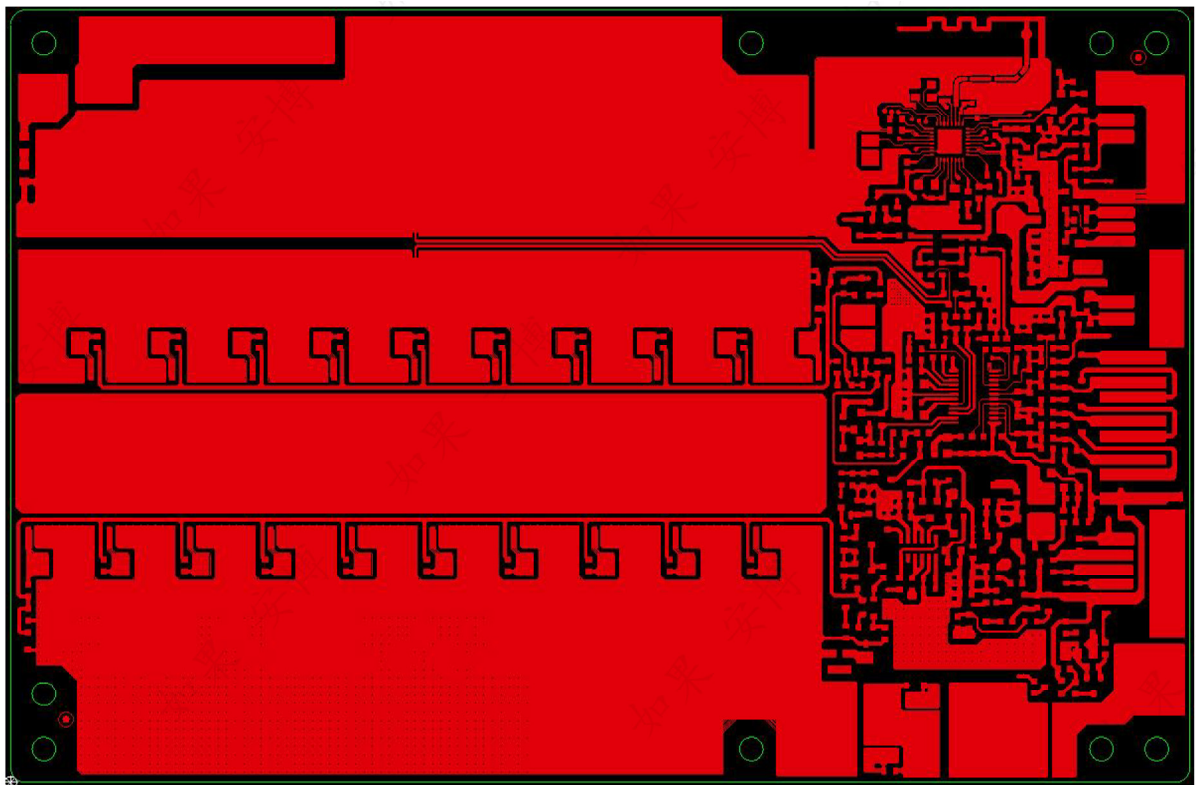
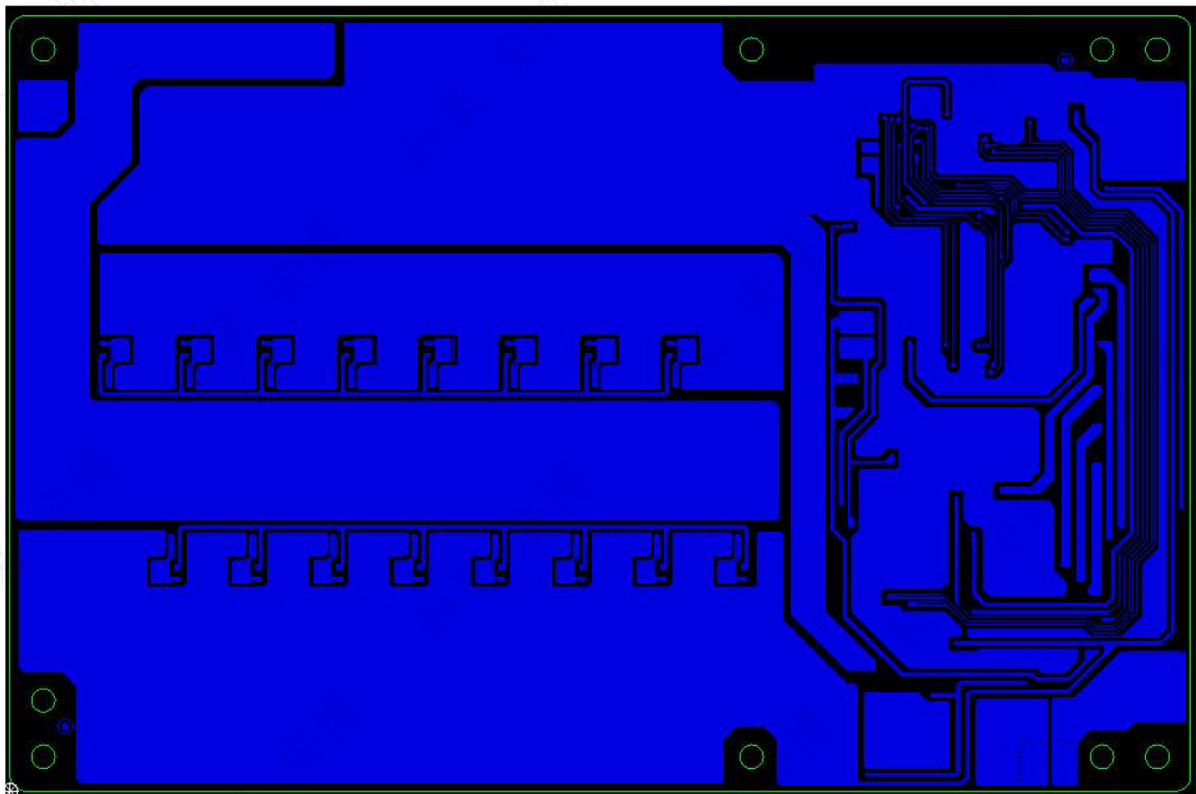
Position of approval mark

Example of approval mark



Electronic Block Diagram





Information document No. : RBT12300LFP-M-00
Manufacturer : Enerblok Co., Ltd.
Regulation : R10.06 to Supplement 3

List of main component constituting the ESA

Name	Specification	Qty.
Enclosure	ABS, Min thickness: 3.2mm, HB	1
Cell	3.2V, 314Ah	1
PCB	130°C, V-0, Min thickness: 0.67mm	1