

## Verification Report No.: NGBEC24001336001

Date: Apr 07, 2024

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Client Name: LINKPOWER ELECTRONICS CO., LTD.

Client Address: NO.656, TONGDE ROAD, TONGXIANG CITY, ZHEJIANG PROVINCE, PRC

Sample Name: Power Adapter

Tested Basic Model No.: ASW0539-24020002A-K

Client Ref. Information: See attachment

The above sample(s) and information were provided by the client.

SGS Job No.: NBP24-001466

Sample Receiving Date: Mar 22, 2024

Verification Period: Mar 22, 2024 ~ Apr 07, 2024

Verification Requested: With reference to RoHS Directive (EU) 2015/863 amending 2011/65/EU.

Verification Method(s): Please refer to next page(s).

Verification Result(s): Please refer to next page(s).

### Test Result Summary:

Test Items	Conclusion
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	Pass

Signed for and on behalf of  
SGS-CSTC Standards Technical Services Co., Ltd. Ningbo Branch

Damon Li

Damon Li  
Approved Signatory



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## Photo of Submitted Sample



ASW0539-24020002A-K

**Verification Method(s):**

1. With reference to IEC 62321-2:2021, disassembly and disjointment were performed for the submitted samples.
2. With reference to IEC 62321-1:2013, tests were performed for the samples indicated by the photos in this report.
  - (1) With reference to IEC 62321-3-1:2013, screening by EDXRF spectroscopy.
  - (2) Wet chemical test method: With reference to IEC 62321-4:2013+A1:2017, IEC62321-5:2013, IEC 62321-7-1:2015, IEC 62321-7-2:2017, IEC 62321-12:2023, IEC 62321-6:2015 and IEC62321-8:2017 , analyzed by ICP-OES,UV-Vis and GC-MS.

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## Verification Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	NGB24-0013360-0001.C001	Silvery metal bracket
SN2	A2	NGB24-0013360-0001.C002	Gray metal bracket
SN3	A3	NGB24-0013360-0001.C003	White plastic jacket
SN4	A4	NGB24-0013360-0001.C004	Black plastic jacket
SN5	A5	NGB24-0013360-0001.C005	Black plastic sheath
SN6	A6	NGB24-0013360-0001.C006	Black plastic lump
SN7	A7	NGB24-0013360-0001.C007	White plastic bracket
SN8	A8	NGB24-0013360-0001.C008	Black plastic shell
SN9	A9	NGB24-0013360-0001.C009	Silvery metal pin
SN10	A10	NGB24-0013360-0001.C010	Green capacitor body
SN11	A11	NGB24-0013360-0001.C011	Black audion body
SN12	A12	NGB24-0013360-0001.C012	Black audion body
SN13	A13	NGB24-0013360-0001.C013	Black rectifier bridge body
SN14	A14	NGB24-0013360-0001.C014	Beige plastic lump
SN15	A15	NGB24-0013360-0001.C015	White solid adhesive
SN16	A16	NGB24-0013360-0001.C016	Blue capacitor body
SN17	A17	NGB24-0013360-0001.C017	Blue capacitor body
SN18	A18	NGB24-0013360-0001.C018	Black rubber lump
SN19	A19	NGB24-0013360-0001.C019	Brown plastic shell
SN20	A20	NGB24-0013360-0001.C020	Brown plastic shell
SN21	A21	NGB24-0013360-0001.C021	Black rubber lump
SN22	A22	NGB24-0013360-0001.C022	Silvery metal nut
SN23	A23	NGB24-0013360-0001.C023	Silvery metal screw
SN24	A24	NGB24-0013360-0001.C024	Green coating
SN25	A25	NGB24-0013360-0001.C025	Green coating
SN26	A26	NGB24-0013360-0001.C026	Black plastic bracket
SN27	A27	NGB24-0013360-0001.C027	Black foam piece
SN28	A28	NGB24-0013360-0001.C028	Black rectifier bridge body
SN29	A29	NGB24-0013360-0001.C029	Black plastic shell
SN30	A30	NGB24-0013360-0001.C030	Yellow solid adhesive
SN31	A31	NGB24-0013360-0001.C031	Yellow plastic shell
SN32	A32	NGB24-0013360-0001.C032	Black plastic shell
SN33	A33	NGB24-0013360-0001.C033	Black rubber lump
SN34	A34	NGB24-0013360-0001.C034	Red plastic jacket
SN35	A35	NGB24-0013360-0001.C035	Silvery metal piece
SN36	A36	NGB24-0013360-0001.C036	Silvery metal soldering tin
SN37	A37	NGB24-0013360-0001.C037	Black diode body
SN38	A38	NGB24-0013360-0001.C038	Green PCB body
SN39	A39	NGB24-0013360-0001.C039	Yellow plastic adhesive tape
SN40	A40	NGB24-0013360-0001.C040	Black plastic bracket

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## Verification Result(s):

In accordance with the result of material risk assessment, the following disjointed parts in the submitted sample have been verified. (Unless otherwise specified, the unit is mg/kg).

Test Item(s)	A1	A2	A3	A4	A5	A6	A7	A8
Cd	BL	ND	BL	BL	BL	BL	BL	BL
Pb	BL	345	BL	BL	BL	BL	BL	BL
Hg	BL							
Cr(VI)▼	BL							
PBB	---	---	BL	BL	BL	BL	BL	BL
PBDE	---	---	BL	BL	BL	BL	BL	BL
DBP	---	---	BL	BL	BL	BL	BL	BL
BBP	---	---	BL	BL	BL	BL	BL	BL
DEHP	---	---	BL	BL	BL	BL	BL	BL
DIBP	---	---	BL	BL	BL	BL	BL	BL
Conclusion	PASS							

Test Item(s)	A9	A10	A11	A12	A13	A14	A15	A16
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Pb	26807▲	BL						
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	ND	BL	BL	BL	BL	BL	BL
PBB	---	BL	BL	ND	BL	ND	BL	BL
PBDE	---	BL	BL	ND	BL	ND	BL	BL
DBP	---	ND	ND	ND	BL	BL	BL	BL
BBP	---	ND	ND	ND	BL	BL	BL	BL
DEHP	---	ND	ND	ND	BL	BL	BL	BL
DIBP	---	ND	ND	ND	BL	BL	BL	BL
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A17	A18	A19	A20	A21	A22	A23	A24
Cd	BL							
Pb	BL							
Hg	BL							
Cr(VI)▼	BL							
PBB	BL	BL	BL	BL	BL	---	---	BL
PBDE	BL	BL	BL	BL	BL	---	---	BL
DBP	BL	BL	BL	BL	BL	---	---	BL
BBP	BL	BL	BL	BL	BL	---	---	BL
DEHP	BL	BL	BL	BL	BL	---	---	BL
DIBP	BL	BL	BL	BL	BL	---	---	BL
Conclusion	PASS							

Test Item(s)	A25	A26	A27	A28	A29	A30	A31	A32
Cd	BL							
Pb	BL							
Hg	BL							
Cr(VI)▼	BL							

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Test Item(s)	A25	A26	A27	A28	A29	A30	A31	A32
PBB	BL	BL	BL	BL	ND	ND	BL	
PBDE	BL	BL	BL	BL	ND	ND	BL	
DBP	BL	BL	ND	ND	BL	BL	ND	
BBP	BL	BL	ND	ND	BL	BL	ND	
DEHP	BL	BL	ND	ND	BL	BL	ND	
DIBP	BL	BL	ND	ND	BL	BL	ND	
Conclusion	PASS							

Test Item(s)	A33	A34	A35	A36	A37	A38	A39	A40
Cd	BL							
Pb	BL							
Hg	BL							
Cr(VI)▼	BL							
PBB	BL	BL	---	---	BL	ND	BL	BL
PBDE	BL	BL	---	---	BL	ND	BL	BL
DBP	ND	BL	---	---	ND	BL	BL	BL
BBP	ND	BL	---	---	ND	BL	BL	BL
DEHP	ND	BL	---	---	ND	BL	BL	BL
DIBP	ND	BL	---	---	ND	BL	BL	BL
Conclusion	PASS							

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**Notes:**

(1) Interpretation of screening results by X-ray fluorescence spectrometry (XRF):

- (a) Screening limits in mg/kg for regulated elements in various matrices according to IEC 62321-1:2013 Annex A as below table.

Element	Polymer	Metal	Composite Materials
Cd	BL $\leq$ (70-3 $\sigma$ ) $< X <$ (130+3 $\sigma$ ) $\leq$ OL	BL $\leq$ (70-3 $\sigma$ ) $< X <$ (130+3 $\sigma$ ) $\leq$ OL	LOD $< X <$ (150+3 $\sigma$ ) $\leq$ OL
Pb	BL $\leq$ (700-3 $\sigma$ ) $< X <$ (1300+3 $\sigma$ ) $\leq$ OL	BL $\leq$ (700-3 $\sigma$ ) $< X <$ (1300+3 $\sigma$ ) $\leq$ OL	BL $\leq$ (500-3 $\sigma$ ) $< X <$ (1500+3 $\sigma$ ) $\leq$ OL
Hg	BL $\leq$ (700-3 $\sigma$ ) $< X <$ (1300+3 $\sigma$ ) $\leq$ OL	BL $\leq$ (700-3 $\sigma$ ) $< X <$ (1300+3 $\sigma$ ) $\leq$ OL	BL $\leq$ (500-3 $\sigma$ ) $< X <$ (1500+3 $\sigma$ ) $\leq$ OL
Br	BL $\leq$ (300-3 $\sigma$ ) $< X$	Not applicable	BL $\leq$ (250-3 $\sigma$ ) $< X$
Cr	BL $\leq$ (700-3 $\sigma$ ) $< X$	BL $\leq$ (700-3 $\sigma$ ) $< X$	BL $\leq$ (500-3 $\sigma$ ) $< X$

(b) If the maximum allowed level restricts PBB/PBDE and Cr(VI) rather than Br and Cr, the exceptions are the XRF determinations of Br and Cr. If the quantitative results for the elements Br and/or Cr are higher than the limit (for Br calculated based on the stoichiometry of Br in the most common congeners of PBB/PBDE), the sample is "inconclusive".

(c) Results are obtained by EDXRF for primary screening, LOD = Limit of Detection, BL = Below Limit, OL= Over Limit, IN (The symbol X marks the region)=Inconclusive, where further investigation is necessary, and further chemical testing by ICP-OES (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBB/PBDE) are recommended to be performed.

(d) The EDXRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.

(2) Screening results of Phthalates (PHTH) are for primary screening, and further chemical testing by GC-MS (for DBP, BBP, DEHP and DIBP) are recommended to be performed if the concentration exceeds the below warning value (unit: mg/kg).

Test Items	CAS No.	Polymer/ Composite Materials
Dibutyl phthalate (DBP)	84-74-2	BL $\leq$ 600 $< X$
Butyl benzyl phthalate (BBP)	85-68-7	BL $\leq$ 600 $< X$
Bis(2-ethylhexyl) phthalate (DEHP)	117-81-7	BL $\leq$ 600 $< X$
Diisobutyl phthalate (DIBP)	84-69-5	BL $\leq$ 600 $< X$

## (3) Interpretation of results by chemical tests:

- (a) mg/kg = 0.0001%, MDL=Method detection Limit, ND = Not Detected (<MDL), --- = Not Applicable.
- (b) Unit and MDL in wet chemical test

Test Items	Pb	Cd	Hg	DBP	BBP	DEHP	DIBP
Unit	mg/kg						
MDL	10	10	10	100	100	100	100

The MDL for single compound of PBB and PBDE is 100 mg/kg,

MDL of Cr(VI) for polymer, composite and leather sample is 10 mg/kg.

MDL of Cr(VI) for metal sample is 0.10  $\mu$ g/cm<sup>2</sup>.

- (c) ▼ =Metal sample

- a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13  $\mu$ g/cm<sup>2</sup>. The sample coating is considered to contain Cr(VI).
- b. The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10  $\mu$ g/cm<sup>2</sup>). The coating is considered a non-Cr(VI) based coating
- c. The result between 0.10  $\mu$ g/cm<sup>2</sup> and 0.13  $\mu$ g/cm<sup>2</sup> is considered to be inconclusive-unavoidable coating variations may influence the determination

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Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

(4) Restricted substances and maximum concentration values tolerated by weight in homogeneous materials under RoHS Directive: Cd: 0.01%, Pb/Hg/Cr(VI)/PBB/PBDE/DEHP/DBP/BBP/DIBP: 0.1%. The limit is quoted from RoHS Directive (EU) 2015/863.

(5) IEC 62321 series is equivalent to EN 62321 series.

(6) ▲=According to the declaration from the client, Lead (Pb) in A9 is exempted by EU RoHS directive 2011/65/EU based on |ANNEX III 6(c)|: Copper alloy containing up to 4 % lead by weight.

More information about exemption can be found via the following link:  
<https://rohs.sgs.com.cn/PDFLinks/en/RSTS-TP-037%20RoHS%20Exemption%20%28EN%29.pdf>

(7) According to the declaration from applicant, the materials of Model "ASW0539-24020002A-K" are the same as those in Model mentioned in Client Ref. Information and its results for support the results of Model mentioned in Client Ref. Information. The applicant will take the responsibility of all discrepancy and risk.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule ( $w=0$ ) stated in ILAC-G8:09/2019.



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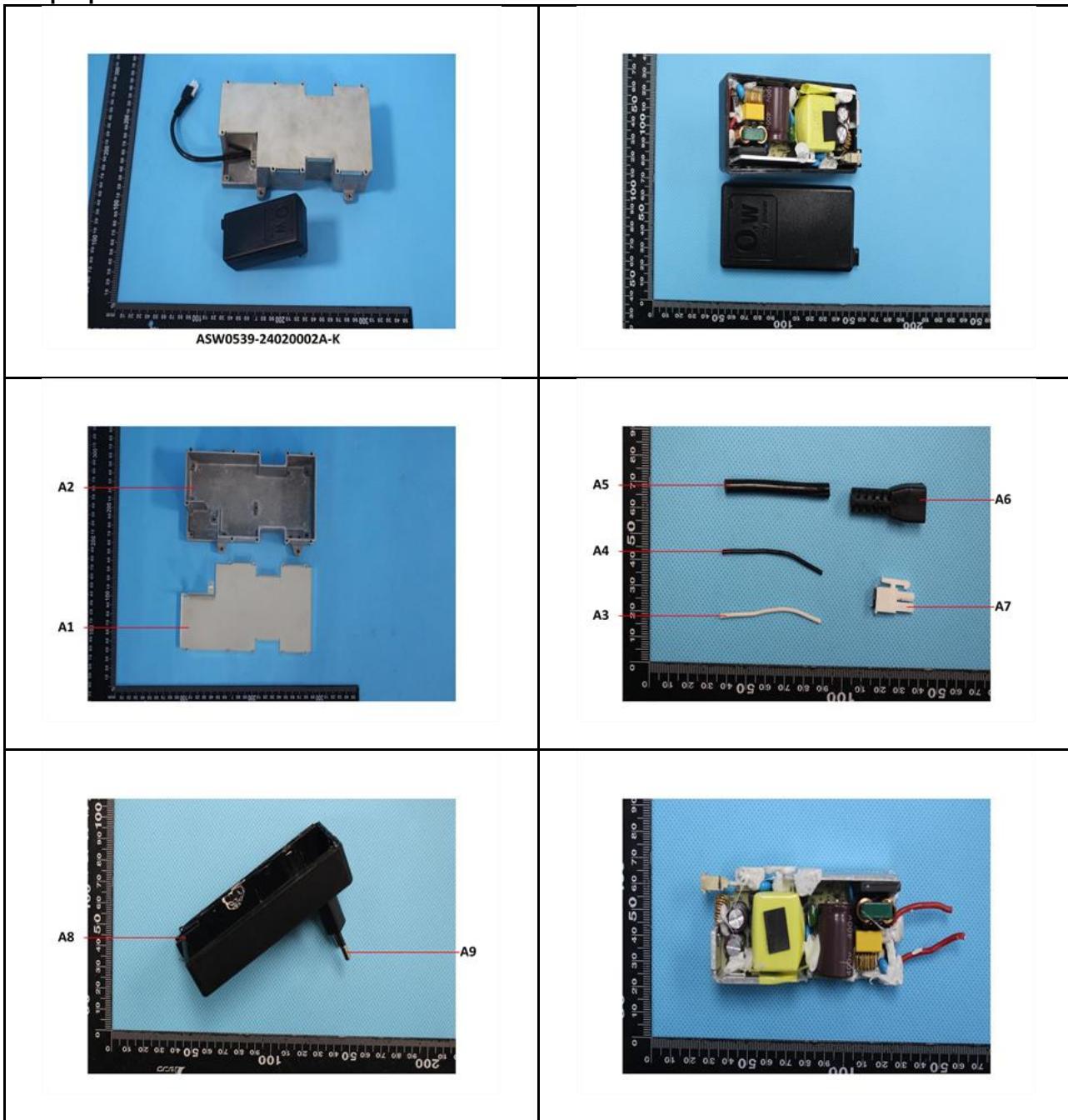
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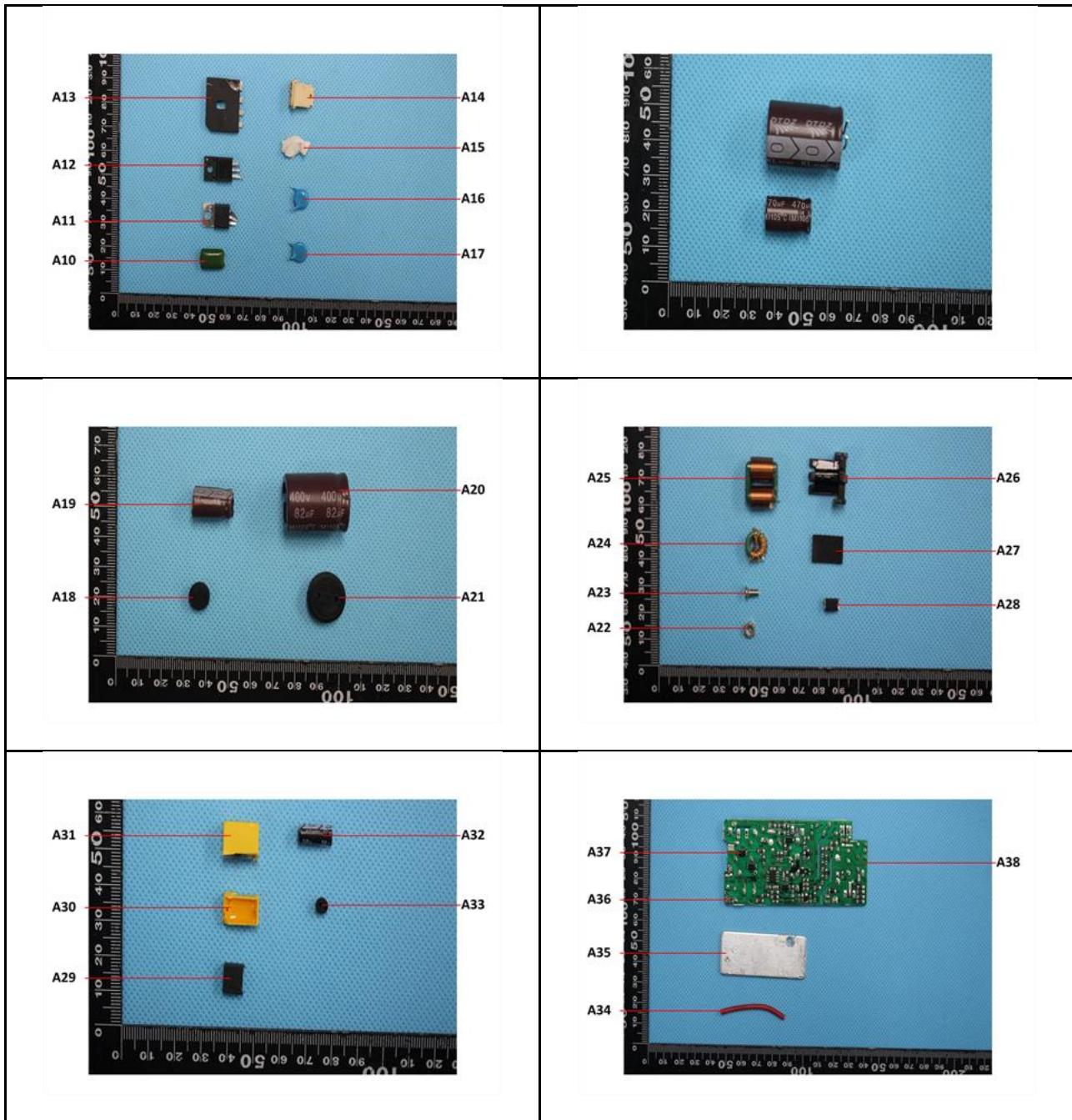
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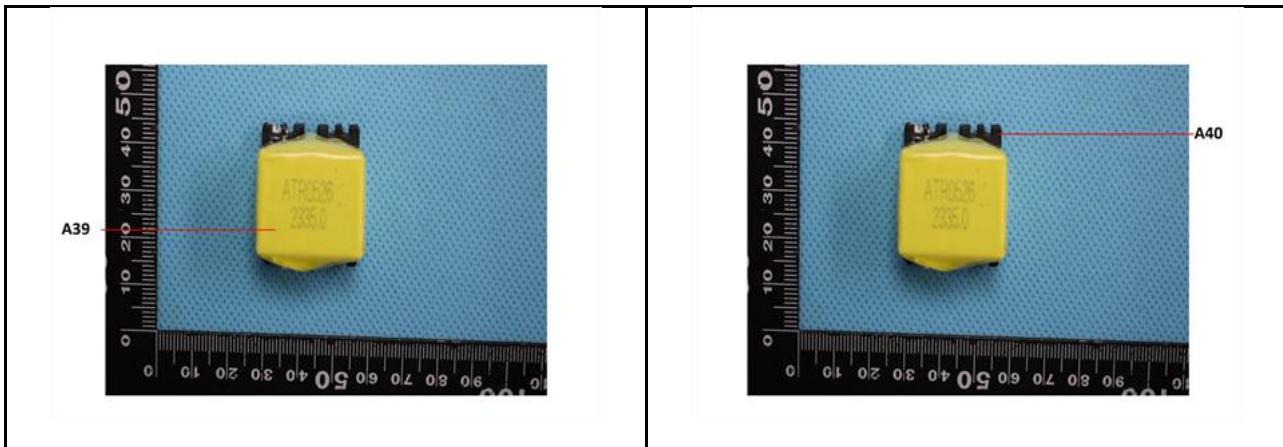
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