

Client Name: JIAYU ENERGY TECHNOLOGY CO., LTD  
Client Address: UNIT 1, BUILDING 3, NO.3 NANSHAN ROAD, SONGSHAN LAKE PARK. DONGGUAN CITY. 523000 GUANGDONG P.R. CHINA

Sample Name: PV Microinverter

Tested Basic Model No.: JMI-800

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

SGS Job No.: SZP25-018092  
Sample Receiving Date: Apr 15, 2025  
Verification Period: Apr 15, 2025 ~ May 12, 2025  
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. Shenzhen Branch

Andy

Andy Ni  
Approved Signatory

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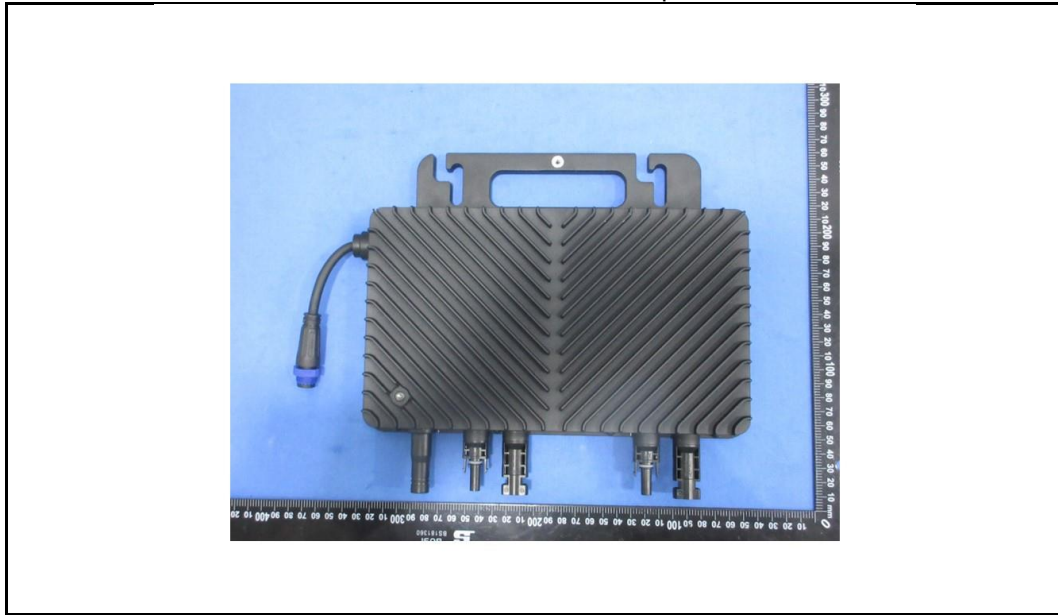


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Photo of Submitted Sample



### 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         | SZX25-0012542-0001.C001 | Silvery metal shell with black surface |
| SN2   | A2         | SZX25-0012542-0001.C002 | Transparent plastic part               |
| SN3   | A3         | SZX25-0012542-0001.C003 | Gray sponge with adhesive glue         |
| SN4   | A4         | SZX25-0012542-0001.C004 | Silvery metal cover with black surface |
| SN5   | A5         | SZX25-0012542-0001.C005 | Silvery metal screw                    |
| SN6   | A6         | SZX25-0012542-0001.C006 | Black plastic sheet                    |
| SN7   | A7         | SZX25-0012542-0001.C007 | Black adhesive glue                    |
| SN8   | A8         | SZX25-0012542-0001.C008 | Silvery metal screw with blue surface  |
| SN9   | A9         | SZX25-0012542-0001.C009 | Silvery metal washer with blue surface |
| SN10  | A10        | SZX25-0012542-0001.C010 | Silvery metal washer with blue surface |
| SN11  | A11        | SZX25-0012542-0001.C011 | Black plastic part                     |
| SN12  | A12        | SZX25-0012542-0001.C012 | Black plastic (cable jacket)           |
| SN13  | A13        | SZX25-0012542-0001.C013 | Black plastic part                     |
| SN14  | A14        | SZX25-0012542-0001.C014 | Blue plastic part                      |
| SN15  | A15        | SZX25-0012542-0001.C015 | Brown plastic (wire insulation)        |
| SN16  | A16        | SZX25-0012542-0001.C016 | Yellow plastic (wire insulation)       |
| SN17  | A17        | SZX25-0012542-0001.C017 | Blue plastic (wire insulation)         |
| SN18  | A18        | SZX25-0012542-0001.C018 | Golden metal pin                       |
| SN19  | A19        | SZX25-0012542-0001.C019 | Silvery metal solder                   |
| SN20  | A20        | SZX25-0012542-0001.C020 | Black dry glue                         |
| SN21  | A21        | SZX25-0012542-0001.C021 | Black plastic part                     |
| SN22  | A22        | SZX25-0012542-0001.C022 | Black plastic part                     |
| SN23  | A23        | SZX25-0012542-0001.C023 | Black plastic part                     |
| SN24  | A24        | SZX25-0012542-0001.C024 | Black rubber washer                    |
| SN25  | A25        | SZX25-0012542-0001.C025 | Silvery metal pin                      |
| SN26  | A26        | SZX25-0012542-0001.C026 | White rubber washer                    |
| SN27  | A27        | SZX25-0012542-0001.C027 | Black plastic part                     |
| SN28  | A28        | SZX25-0012542-0001.C028 | Black plastic part                     |
| SN29  | A29        | SZX25-0012542-0001.C029 | Black plastic (cable jacket)           |
| SN30  | A30        | SZX25-0012542-0001.C030 | Golden metal part                      |
| SN31  | A31        | SZX25-0012542-0001.C031 | Transparent plastic (wire insulation)  |
| SN32  | A32        | SZX25-0012542-0001.C032 | Black rubber part                      |
| SN33  | A33        | SZX25-0012542-0001.C033 | Black "PCB"                            |
| SN34  | A34        | SZX25-0012542-0001.C034 | Silvery metal solder                   |
| SN35  | A35        | SZX25-0012542-0001.C035 | Green "PCB"                            |
| SN36  | A36        | SZX25-0012542-0001.C036 | Silvery metal solder                   |
| SN37  | A37        | SZX25-0012542-0001.C037 | Black body                             |
| SN38  | A38        | SZX25-0012542-0001.C038 | Black body                             |
| SN39  | A39        | SZX25-0012542-0001.C039 | Black body                             |
| SN40  | A40        | SZX25-0012542-0001.C040 | Black body                             |
| SN41  | A41        | SZX25-0012542-0001.C041 | Black body                             |
| SN42  | A42        | SZX25-0012542-0001.C042 | Black body                             |
| SN43  | A43        | SZX25-0012542-0001.C043 | Black body                             |
| SN44  | A44        | SZX25-0012542-0001.C044 | Black body                             |
| SN45  | A45        | SZX25-0012542-0001.C045 | Black body                             |
| SN46  | A46        | SZX25-0012542-0001.C046 | Black body                             |
| SN47  | A47        | SZX25-0012542-0001.C047 | Black body                             |
| SN48  | A48        | SZX25-0012542-0001.C048 | Black body                             |



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| SN ID | Sample No. | SGS Sample ID                | Description                             |
|-------|------------|------------------------------|-----------------------------------------|
| SN49  | A49        | SZX25-0012542-0001.C049      | Black body                              |
| SN50  | A50        | SZX25-0012542-0001.C050      | White dry glue                          |
| SN51  | A51        | SZX25-0012542-0001.C051      | Silvery metal                           |
| SN52  | A52        | SZX25-0012542-0001.C052      | Black plastic sheet with white printing |
| SN53  | A53        | SZX25-0012542-0001.C053      | Black rubber stopper                    |
| SN54  | A54        | SZX25-0012542-0001.C054      | Gray plastic shell                      |
| SN55  | A55        | SZX25-0012542-0001.C055      | Blue capacitor body                     |
| SN56  | A56        | SZX25-0012542-0001.C056      | White plastic tube                      |
| SN57  | A57        | SZX25-0012542-0001.C057      | Black dry glue                          |
| SN58  | A58        | SZX25-0012542-0001.C058      | Green material                          |
| SN59  | A59        | SZX25-0012542-0001.C059      | Black dry glue                          |
| SN60  | A60        | SZX25-0012542-0001.C060      | Yellow hard board                       |
| SN61  | A61        | SZX25-0012542-0001.C061      | Silvery metal solder                    |
| SN62  | A62        | SZX25-0012542-0001.C062      | Black "PCB"                             |
| SN63  | A63        | SZX25-0012542-0001.C063      | Black body                              |
| SN64  | A64        | SZX25-0012542-0001.C064      | Black body                              |
| SN65  | A65        | SZX25-0012542-0001.C065      | Black plastic part                      |
| SN66  | A66        | SZX25-0012542-0001.C066      | Silvery metal pin                       |
| SN67  | A67        | SZX25-0012542-0001.C067      | Yellow plastic adhesive tape            |
| SN68  | A68        | SZX25-0012542-0001.C068      | Blue capacitor body                     |
| SN69  | A69        | SZX25-0012542-0001.C069      | White plastic shell                     |
| SN70  | A70        | SZX25-0012542-0001.C070      | White dry glue                          |
| SN71  | A71        | SZX25-0012542-0001.C071.C001 | Silvery metal solder                    |
| SN72  | A72        | SZX25-0012542-0001.C072      | Black plastic part                      |
| SN73  | A73        | SZX25-0012542-0001.C073      | Silvery metal part                      |
| SN74  | A74        | SZX25-0012542-0001.C074      | Silvery metal solder                    |
| SN75  | A75        | SZX25-0012542-0001.C075      | Copper foil with adhesive glue          |
| SN76  | A76        | SZX25-0012542-0001.C076      | Yellow plastic adhesive tape            |
| SN77  | A77        | SZX25-0012542-0001.C077      | Transparent plastic sheet               |
| SN78  | A78        | SZX25-0012542-0001.C078      | Yellow enameled wire                    |
| SN79  | A79        | SZX25-0012542-0001.C079      | Copper metal part                       |
| SN80  | A80        | SZX25-0012542-0001.C080      | Silvery material with blue surface      |
| SN81  | A81        | SZX25-0012542-0001.C081      | White plastic shell with gray printing  |
| SN82  | A82        | SZX25-0012542-0001.C082      | Brown plastic shell                     |
| SN83  | A83        | SZX25-0012542-0001.C083      | Green material                          |
| SN84  | A84        | SZX25-0012542-0001.C084      | Black plastic part                      |
| SN85  | A85        | SZX25-0012542-0001.C085      | Black plastic part                      |
| SN86  | A86        | SZX25-0012542-0001.C086      | Silvery metal part                      |
| SN87  | A87        | SZX25-0012542-0001.C087      | Silvery metal part                      |
| SN88  | A88        | SZX25-0012542-0001.C088      | Copper metal part                       |
| SN89  | A89        | SZX25-0012542-0001.C089      | White plastic part with black dry glue  |
| SN90  | A90        | SZX25-0012542-0001.C090      | Black plastic part                      |
| SN91  | A91        | SZX25-0012542-0001.C091      | Black plastic shell                     |
| SN92  | A92        | SZX25-0012542-0001.C092      | Blue capacitor body                     |
| SN93  | A93        | SZX25-0012542-0001.C093      | Black dry glue                          |
| SN94  | A94        | SZX25-0012542-0001.C094      | Black body                              |
| SN95  | A95        | SZX25-0012542-0001.C095      | Black body                              |
| SN96  | A96        | SZX25-0012542-0001.C096      | Black body                              |



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| SN ID | Sample No. | SGS Sample ID           | Description        |
|-------|------------|-------------------------|--------------------|
| SN97  | A97        | SZX25-0012542-0001.C097 | Black body         |
| SN98  | A98        | SZX25-0012542-0001.C098 | Black body         |
| SN99  | A99        | SZX25-0012542-0001.C099 | Black body         |
| SN100 | A100       | SZX25-0012542-0001.C100 | Black body         |
| SN101 | A101       | SZX25-0012542-0001.C101 | Gray modeling clay |



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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   |
|--------------|------|------|------|------|------|------|------|------|
| Pb           | BL   | BL   | BL   | BL   | BL   | BL   | BL   | BL   |
| Hg           | BL   | BL   | BL   | BL   | BL   | BL   | BL   | BL   |
| Cd           | BL   | BL   | BL   | BL   | BL   | BL   | BL   | BL   |
| Cr(VI)▼      | ND   | BL   | BL   | ND   | ND   | BL   | BL   | ND   |
| PBB          | ---  | BL   | BL   | ---  | ---  | BL   | BL   | ---  |
| PBDE         | ---  | BL   | BL   | ---  | ---  | BL   | BL   | ---  |
| DEHP         | ---  | BL   | BL   | ---  | ---  | BL   | BL   | ---  |
| BBP          | ---  | BL   | BL   | ---  | ---  | BL   | BL   | ---  |
| DBP          | ---  | BL   | BL   | ---  | ---  | BL   | BL   | ---  |
| DIBP         | ---  | BL   | BL   | ---  | ---  | BL   | BL   | ---  |
| Conclusion   | PASS | PASS | PASS | PASS | PASS | PASS | PASS | PASS |

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

| Test Item(s) | A17  | A18    | A19  | A20  | A21  | A22  | A23  | A24  |
|--------------|------|--------|------|------|------|------|------|------|
| Pb           | BL   | 26362▲ | BL   | BL   | BL   | BL   | BL   | BL   |
| Hg           | BL   | BL     | BL   | BL   | BL   | BL   | BL   | BL   |
| Cd           | BL   | BL     | BL   | BL   | BL   | BL   | BL   | BL   |
| Cr(VI)▼      | BL   | BL     | BL   | BL   | BL   | BL   | BL   | BL   |
| PBB          | BL   | ---    | ---  | BL   | ND   | BL   | ND   | BL   |
| PBDE         | BL   | ---    | ---  | BL   | ND   | BL   | ND   | BL   |
| DEHP         | ND   | ---    | ---  | BL   | ND   | BL   | ND   | BL   |
| BBP          | ND   | ---    | ---  | BL   | ND   | BL   | ND   | BL   |
| DBP          | ND   | ---    | ---  | BL   | ND   | BL   | ND   | BL   |
| DIBP         | ND   | ---    | ---  | BL   | ND   | BL   | ND   | BL   |
| Conclusion   | PASS | PASS   | PASS | PASS | PASS | PASS | PASS | PASS |

| Test Item(s) | A25 | A26 | A27 | A28 | A29 | A30 | A31 | A32 |
|--------------|-----|-----|-----|-----|-----|-----|-----|-----|
| Pb           | BL  | BL  | BL  | BL  | BL  | BL  | BL  | BL  |
| Hg           | BL  | BL  | BL  | BL  | BL  | BL  | BL  | BL  |



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| Test Item(s) | A25  | A26  | A27  | A28  | A29  | A30  | A31  | A32  |
|--------------|------|------|------|------|------|------|------|------|
| Cd           | BL   | BL   | BL   | BL   | BL   | BL   | BL   | BL   |
| Cr(VI)▼      | BL   | BL   | BL   | BL   | BL   | BL   | BL   | BL   |
| PBB          | ---  | BL   | BL   | BL   | BL   | ---  | BL   | BL   |
| PBDE         | ---  | BL   | BL   | BL   | BL   | ---  | BL   | BL   |
| DEHP         | ---  | BL   | BL   | BL   | ND   | ---  | ND   | BL   |
| BBP          | ---  | BL   | BL   | BL   | ND   | ---  | ND   | BL   |
| DBP          | ---  | BL   | BL   | BL   | ND   | ---  | ND   | BL   |
| DIBP         | ---  | BL   | BL   | BL   | ND   | ---  | ND   | BL   |
| Conclusion   | PASS | PASS | PASS | PASS | PASS | PASS | PASS | PASS |

| Test Item(s) | A33  | A34  | A35  | A36  | A37    | A38   | A39  | A40  |
|--------------|------|------|------|------|--------|-------|------|------|
| Pb           | BL   | BL   | BL   | BL   | 48621▲ | 8515▲ | 36   | BL   |
| Hg           | BL   | BL   | BL   | BL   | BL     | BL    | BL   | BL   |
| Cd           | BL   | BL   | BL   | BL   | ND     | BL    | BL   | BL   |
| Cr(VI)▼      | BL   | BL   | BL   | BL   | BL     | BL    | BL   | BL   |
| PBB          | ND   | ---  | BL   | ---  | BL     | BL    | BL   | BL   |
| PBDE         | ND   | ---  | BL   | ---  | BL     | BL    | BL   | BL   |
| DEHP         | ND   | ---  | BL   | ---  | BL     | BL    | BL   | BL   |
| BBP          | ND   | ---  | BL   | ---  | BL     | BL    | BL   | BL   |
| DBP          | ND   | ---  | BL   | ---  | BL     | BL    | BL   | BL   |
| DIBP         | ND   | ---  | BL   | ---  | BL     | BL    | BL   | BL   |
| Conclusion   | PASS | PASS | PASS | PASS | PASS   | PASS  | PASS | PASS |

| Test Item(s) | A41    | A42    | A43    | A44    | A45    | A46  | A47  | A48    |
|--------------|--------|--------|--------|--------|--------|------|------|--------|
| Pb           | 31702▲ | 37213▲ | 63211▲ | 76078▲ | 75819▲ | BL   | BL   | 32093▲ |
| Hg           | BL     | BL     | BL     | BL     | BL     | BL   | BL   | BL     |
| Cd           | ND     | BL     | BL     | BL     | BL     | BL   | BL   | BL     |
| Cr(VI)▼      | BL     | BL     | BL     | BL     | BL     | BL   | BL   | BL     |
| PBB          | BL     | BL     | BL     | BL     | BL     | BL   | BL   | BL     |
| PBDE         | BL     | BL     | BL     | BL     | BL     | BL   | BL   | BL     |
| DEHP         | BL     | <600*  | BL     | BL     | BL     | BL   | BL   | BL     |
| BBP          | BL     | <600*  | BL     | BL     | BL     | BL   | BL   | BL     |
| DBP          | BL     | <600*  | BL     | BL     | BL     | BL   | BL   | BL     |
| DIBP         | BL     | <600*  | BL     | BL     | BL     | BL   | BL   | BL     |
| Conclusion   | PASS   | PASS   | PASS   | PASS   | PASS   | PASS | PASS | PASS   |

| Test Item(s) | A49 | A50 | A51 | A52 | A53 | A54 | A55 | A56 |
|--------------|-----|-----|-----|-----|-----|-----|-----|-----|
| Pb           | BL  | BL  | BL  | BL  | BL  | BL  | BL  | BL  |
| Hg           | BL  | BL  | BL  | BL  | BL  | BL  | BL  | BL  |
| Cd           | BL  | BL  | BL  | BL  | BL  | BL  | BL  | BL  |
| Cr(VI)▼      | BL  | BL  | BL  | BL  | BL  | BL  | BL  | BL  |
| PBB          | BL  | BL  | --- | BL  | BL  | ND  | BL  | BL  |
| PBDE         | BL  | BL  | --- | BL  | BL  | ND  | BL  | BL  |
| DEHP         | BL  | BL  | --- | BL  | BL  | ND  | BL  | BL  |
| BBP          | BL  | BL  | --- | BL  | BL  | ND  | BL  | BL  |



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| Test Item(s) | A49  | A50  | A51  | A52  | A53  | A54  | A55  | A56  |
|--------------|------|------|------|------|------|------|------|------|
| DBP          | BL   | BL   | ---  | BL   | BL   | ND   | BL   | BL   |
| DIBP         | BL   | BL   | ---  | BL   | BL   | ND   | BL   | BL   |
| Conclusion   | PASS | PASS | PASS | PASS | PASS | PASS | PASS | PASS |

| Test Item(s) | A57  | A58   | A59  | A60  | A61  | A62  | A63  | A64  |
|--------------|------|-------|------|------|------|------|------|------|
| Pb           | BL   | BL    | BL   | BL   | BL   | BL   | BL   | BL   |
| Hg           | BL   | BL    | BL   | BL   | BL   | BL   | BL   | BL   |
| Cd           | BL   | BL    | BL   | BL   | BL   | BL   | BL   | BL   |
| Cr(VI)▼      | BL   | BL    | BL   | BL   | BL   | BL   | BL   | BL   |
| PBB          | ND   | BL    | BL   | BL   | ---  | BL   | BL   | BL   |
| PBDE         | ND   | BL    | BL   | BL   | ---  | BL   | BL   | BL   |
| DEHP         | ND   | <600* | BL   | BL   | ---  | BL   | BL   | BL   |
| BBP          | ND   | <600* | BL   | BL   | ---  | BL   | BL   | BL   |
| DBP          | ND   | <600* | BL   | BL   | ---  | BL   | BL   | BL   |
| DIBP         | ND   | <600* | BL   | BL   | ---  | BL   | BL   | BL   |
| Conclusion   | PASS | PASS  | PASS | PASS | PASS | PASS | PASS | PASS |

| Test Item(s) | A65  | A66  | A67  | A68  | A69  | A70  | A71  | A72  |
|--------------|------|------|------|------|------|------|------|------|
| Pb           | BL   | BL   | BL   | BL   | BL   | BL   | BL   | BL   |
| Hg           | BL   | BL   | BL   | BL   | BL   | BL   | BL   | BL   |
| Cd           | BL   | BL   | BL   | BL   | BL   | BL   | BL   | BL   |
| Cr(VI)▼      | BL   | BL   | BL   | BL   | BL   | BL   | BL   | BL   |
| PBB          | ND   | ---  | BL   | BL   | BL   | BL   | ---  | BL   |
| PBDE         | ND   | ---  | BL   | BL   | BL   | BL   | ---  | BL   |
| DEHP         | ND   | ---  | BL   | BL   | BL   | BL   | ---  | BL   |
| BBP          | ND   | ---  | BL   | BL   | BL   | BL   | ---  | BL   |
| DBP          | ND   | ---  | BL   | BL   | BL   | BL   | ---  | BL   |
| DIBP         | ND   | ---  | BL   | BL   | BL   | BL   | ---  | BL   |
| Conclusion   | PASS | PASS | PASS | PASS | PASS | PASS | PASS | PASS |

| Test Item(s) | A73  | A74  | A75  | A76  | A77  | A78  | A79  | A80  |
|--------------|------|------|------|------|------|------|------|------|
| Pb           | BL   | BL   | BL   | BL   | BL   | BL   | BL   | BL   |
| Hg           | BL   | BL   | BL   | BL   | BL   | BL   | BL   | BL   |
| Cd           | BL   | BL   | BL   | BL   | BL   | BL   | BL   | ND   |
| Cr(VI)▼      | BL   | BL   | BL   | BL   | BL   | BL   | BL   | BL   |
| PBB          | ---  | ---  | BL   | BL   | BL   | BL   | ---  | BL   |
| PBDE         | ---  | ---  | BL   | BL   | BL   | BL   | ---  | BL   |
| DEHP         | ---  | ---  | BL   | BL   | BL   | BL   | ---  | BL   |
| BBP          | ---  | ---  | BL   | BL   | BL   | BL   | ---  | BL   |
| DBP          | ---  | ---  | BL   | BL   | BL   | BL   | ---  | BL   |
| DIBP         | ---  | ---  | BL   | BL   | BL   | BL   | ---  | BL   |
| Conclusion   | PASS | PASS | PASS | PASS | PASS | PASS | PASS | PASS |



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| Test Item(s) | A81  | A82  | A83  | A84  | A85  | A86  | A87  | A88  |
|--------------|------|------|------|------|------|------|------|------|
| Pb           | BL   | BL   | BL   | BL   | BL   | BL   | BL   | BL   |
| Hg           | BL   | BL   | BL   | BL   | BL   | BL   | BL   | BL   |
| Cd           | BL   | BL   | BL   | BL   | BL   | BL   | BL   | BL   |
| Cr(VI)▼      | BL   | BL   | BL   | BL   | BL   | BL   | BL   | BL   |
| PBB          | ND   | BL   | BL   | BL   | ND   | ---  | ---  | ---  |
| PBDE         | ND   | BL   | BL   | BL   | ND   | ---  | ---  | ---  |
| DEHP         | ND   | BL   | ND   | BL   | ND   | ---  | ---  | ---  |
| BBP          | ND   | BL   | ND   | BL   | ND   | ---  | ---  | ---  |
| DBP          | ND   | BL   | ND   | BL   | ND   | ---  | ---  | ---  |
| DIBP         | ND   | BL   | ND   | BL   | ND   | ---  | ---  | ---  |
| Conclusion   | PASS | PASS | PASS | PASS | PASS | PASS | PASS | PASS |

| Test Item(s) | A89  | A90  | A91  | A92  | A93  | A94  | A95    | A96    |
|--------------|------|------|------|------|------|------|--------|--------|
| Pb           | BL   | BL   | BL   | BL   | BL   | BL   | 14840▲ | 69108▲ |
| Hg           | BL   | BL   | BL   | BL   | BL   | BL   | BL     | BL     |
| Cd           | BL   | BL   | BL   | BL   | BL   | BL   | ND     | BL     |
| Cr(VI)▼      | BL   | BL   | BL   | BL   | BL   | BL   | BL     | BL     |
| PBB          | ND   | BL   | BL   | BL   | ND   | BL   | BL     | BL     |
| PBDE         | ND   | BL   | BL   | BL   | ND   | BL   | BL     | BL     |
| DEHP         | ND   | BL   | BL   | BL   | ND   | BL   | BL     | BL     |
| BBP          | ND   | BL   | BL   | BL   | ND   | BL   | BL     | BL     |
| DBP          | ND   | BL   | BL   | BL   | ND   | BL   | BL     | BL     |
| DIBP         | ND   | BL   | BL   | BL   | ND   | BL   | BL     | BL     |
| Conclusion   | PASS | PASS | PASS | PASS | PASS | PASS | PASS   | PASS   |

| Test Item(s) | A97    | A98  | A99  | A100 | A101 |
|--------------|--------|------|------|------|------|
| Pb           | 36503▲ | BL   | BL   | BL   | BL   |
| Hg           | BL     | BL   | BL   | BL   | BL   |
| Cd           | BL     | BL   | BL   | BL   | BL   |
| Cr(VI)▼      | BL     | BL   | BL   | BL   | BL   |
| PBB          | BL     | BL   | BL   | BL   | BL   |
| PBDE         | BL     | BL   | BL   | BL   | BL   |
| DEHP         | BL     | BL   | BL   | BL   | BL   |
| BBP          | BL     | BL   | BL   | BL   | BL   |
| DBP          | BL     | BL   | BL   | BL   | BL   |
| DIBP         | BL     | BL   | BL   | BL   | BL   |
| Conclusion   | PASS   | PASS | PASS | PASS | 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 62321-3-1:2013 Annex A as below table.

| Element | Polymers                                             | Metals                                               | 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 elements – The reading may be different to the actual content in the sample be of non-uniformity composition.

(2) Screening results of Phthalates (PHTH) below the limits are shown as "BL". Further chemical testing by GC-MS is to be performed if the results exceed limits.

| Test Items                         | CAS No.  |
|------------------------------------|----------|
| Bis(2-ethylhexyl) phthalate (DEHP) | 117-81-7 |
| Butyl benzyl phthalate (BBP)       | 85-68-7  |
| Dibutyl phthalate (DBP)            | 84-74-2  |
| Diisobutyl phthalate (DIBP)        | 84-69-5  |

(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    | Hg    | Cd    | DEHP  | BBP   | DBP   | DIBP  |
|------------|-------|-------|-------|-------|-------|-------|-------|
| Unit       | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | 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 µg/cm².

(c) ▼ = Metal sample

a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 µg/cm². 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 µg/cm²). The coating is considered a non-Cr(VI) based coating

c. The result between 0.10 µg/cm² and 0.13 µg/cm² 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/BBP/DBP/DIBP: 0.1%. The limit is quoted from RoHS Directive (EU) 2015/863.
- (5) IEC 62321 series is equivalent to EN 62321 series.
- (6) \* = Considering insufficient sample amount, the Method Detection Limit (MDL) is raised appropriately.
- (7) ▲ = According to the declaration from the client, Lead (Pb) in No.A18 is exempted by EU RoHS directive 2011/65/EU based on [ANNEX III 6(c)]: Copper alloy containing up to 4% lead by weight.

Lead (Pb) in No.A37, A38, A41~A45, A48, A95~A97 are exempted by EU RoHS directive 2011/65/EU based on [ANNEX III 7(a)]: Lead in high melting temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead).

More information about exemption can be found via the following link:

<https://rohs.sgsonline.com.cn/PDFLinks/en/RSTS-TP-037%20RoHS%20Exemption%20%28EN%29.pdf>

- (8) The reported result of Lead (Pb) in No.A43~A45, A96 are for reference only.

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.



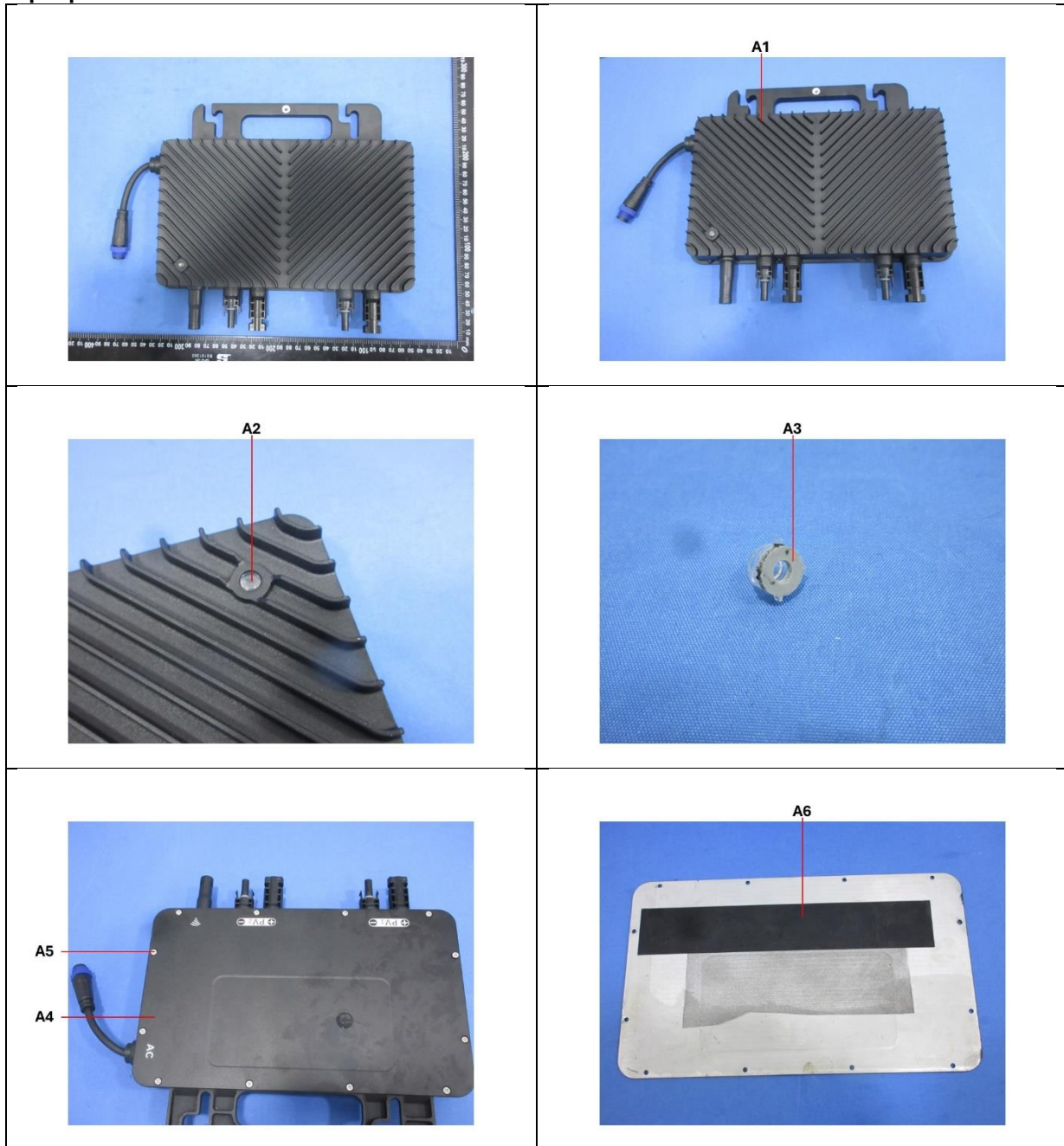
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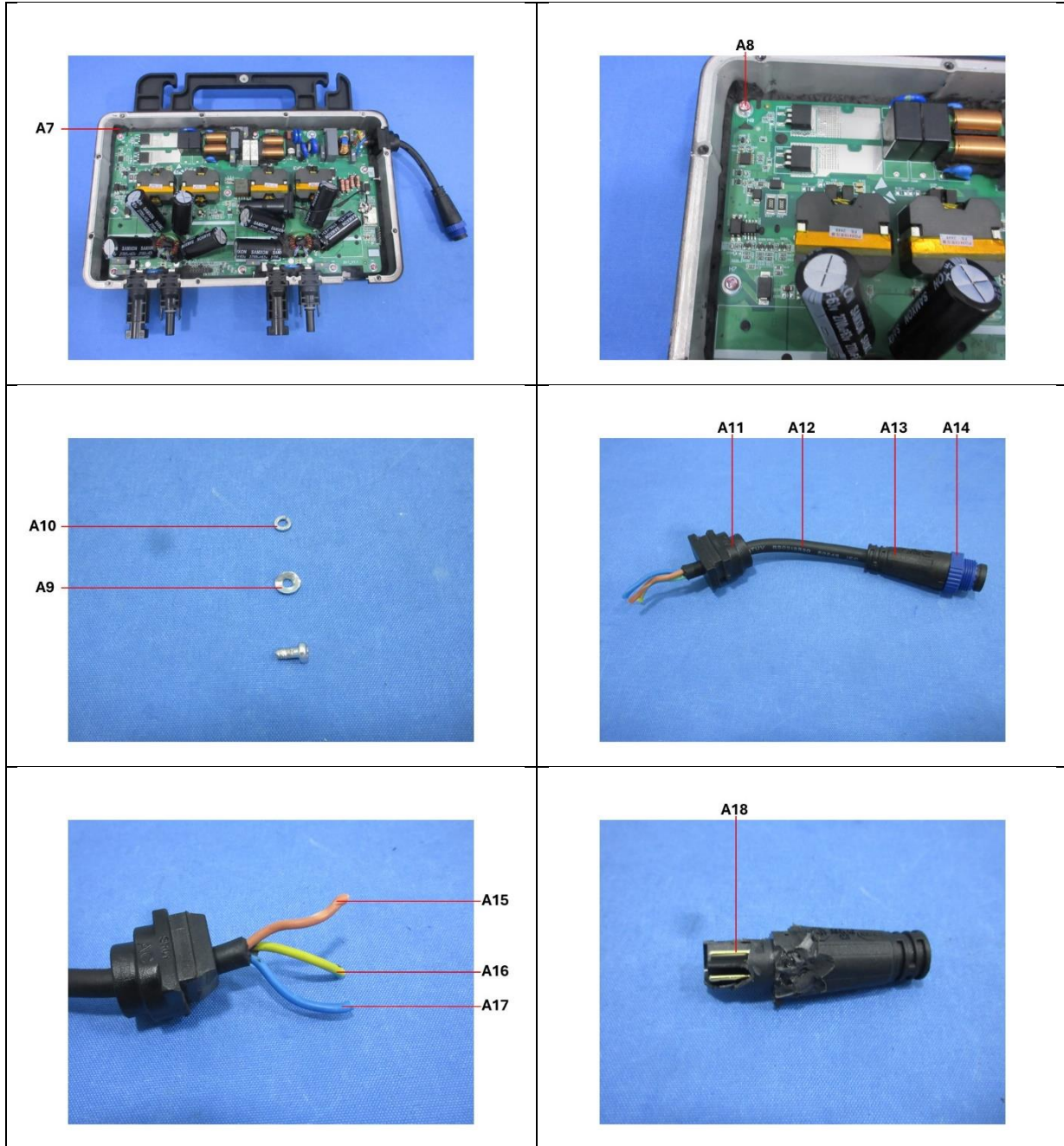
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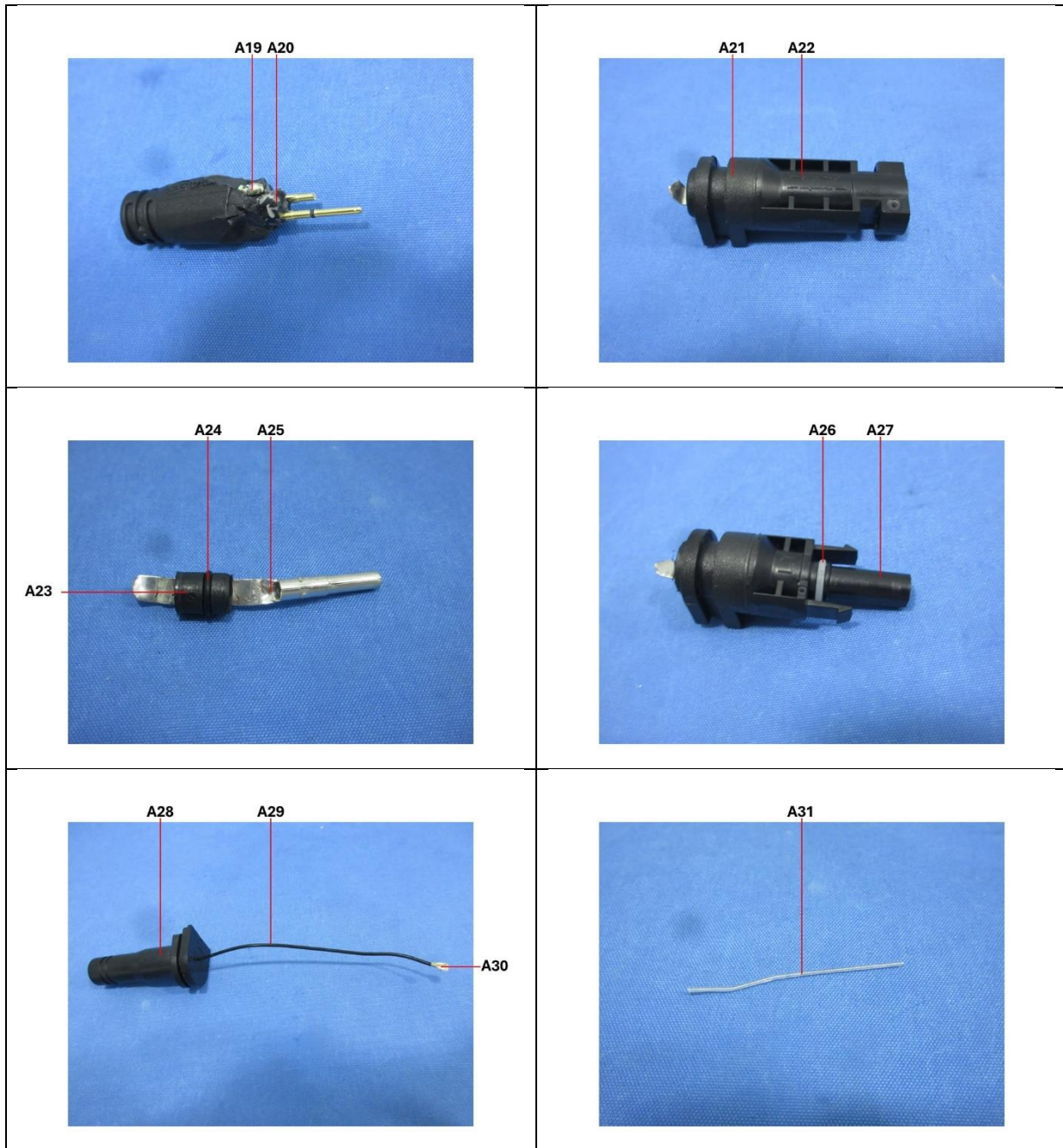
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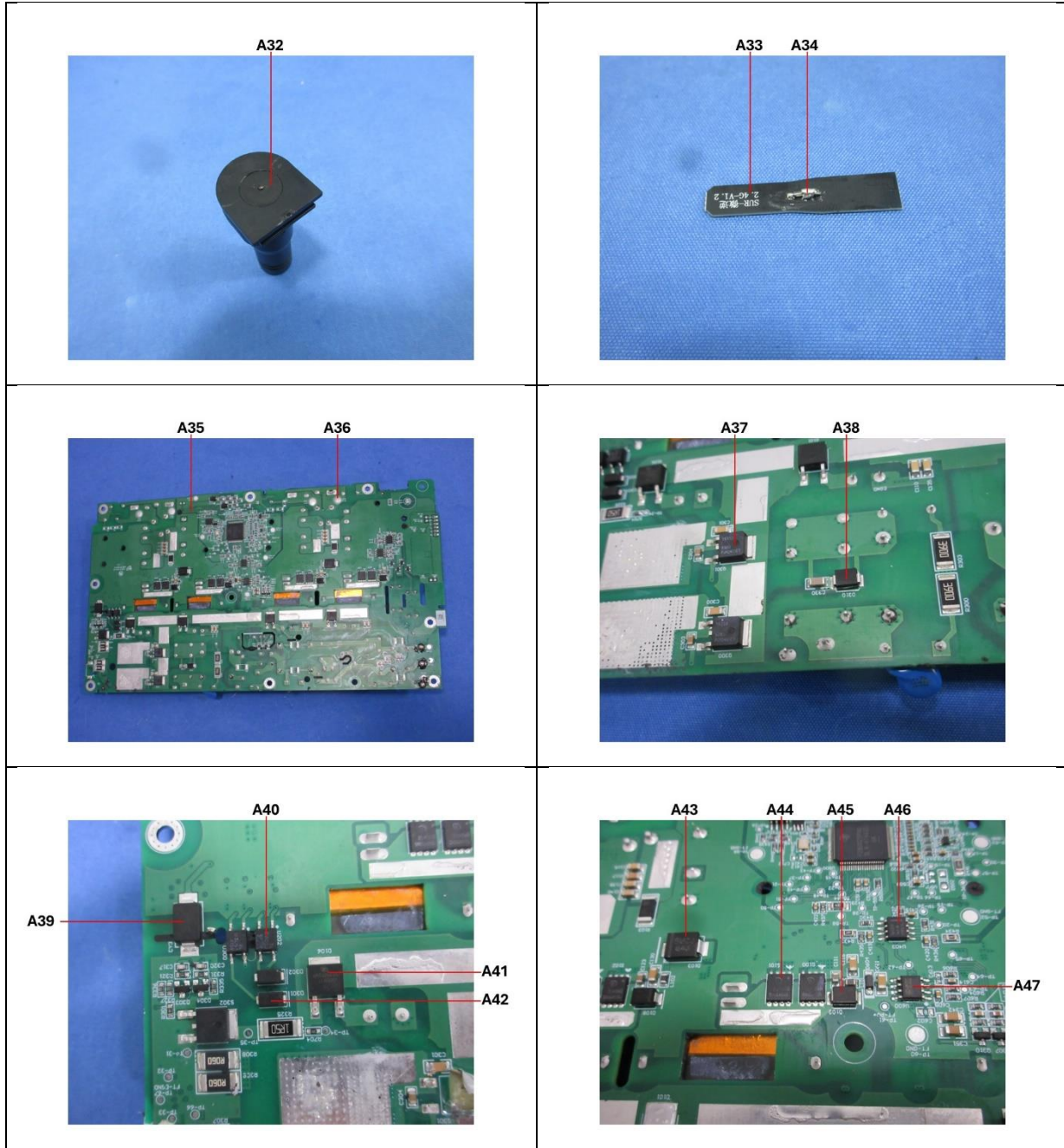
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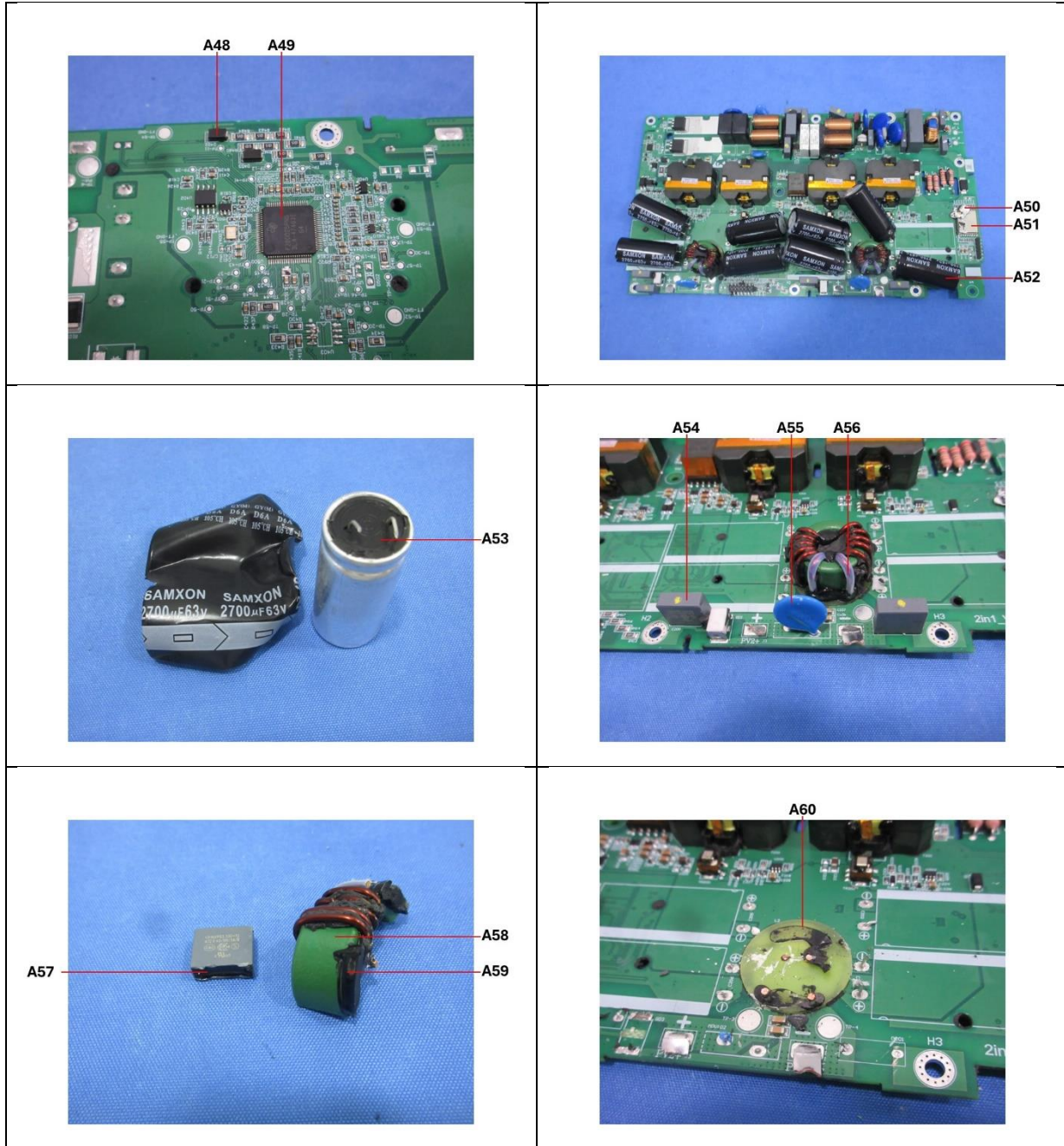
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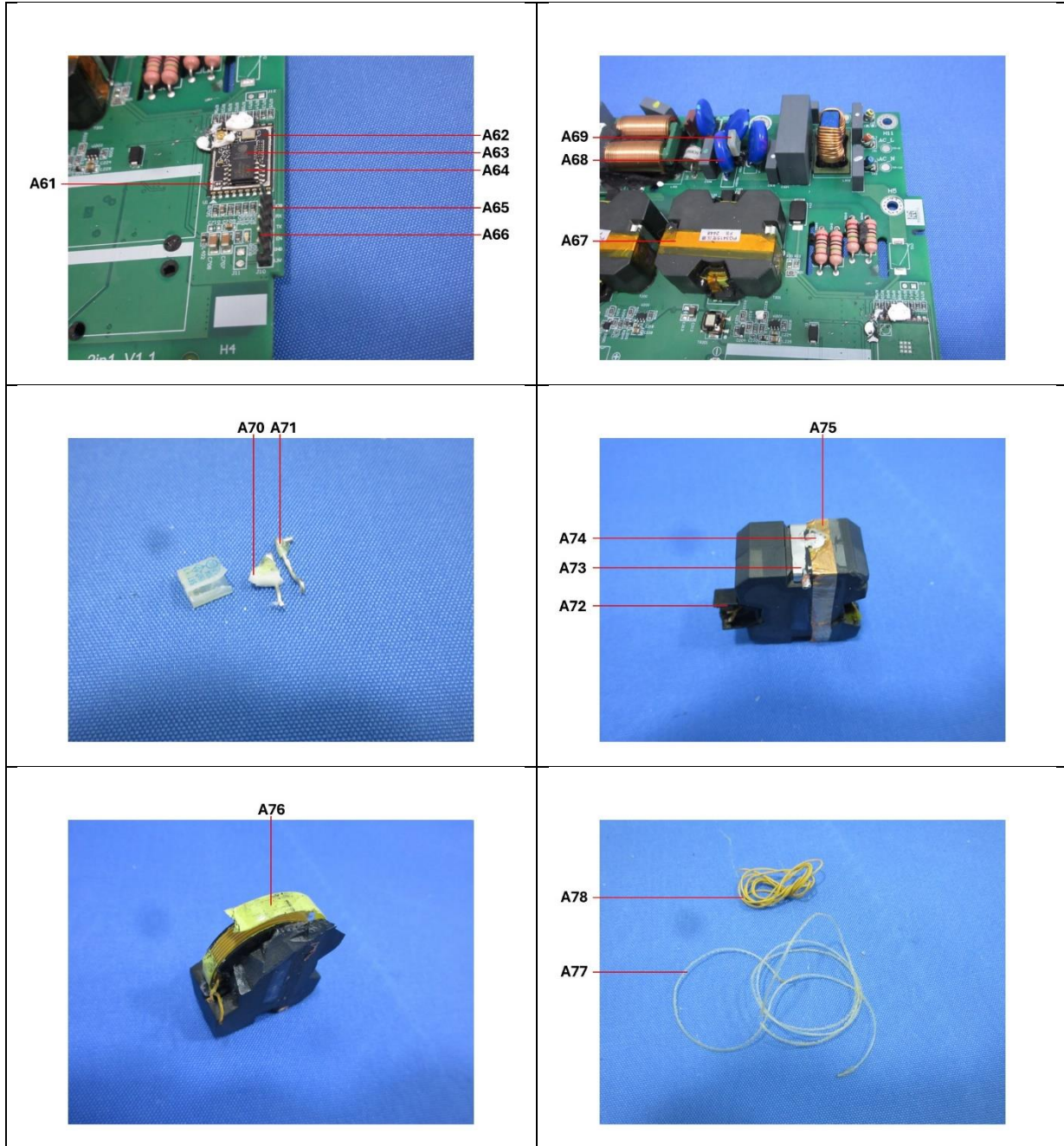


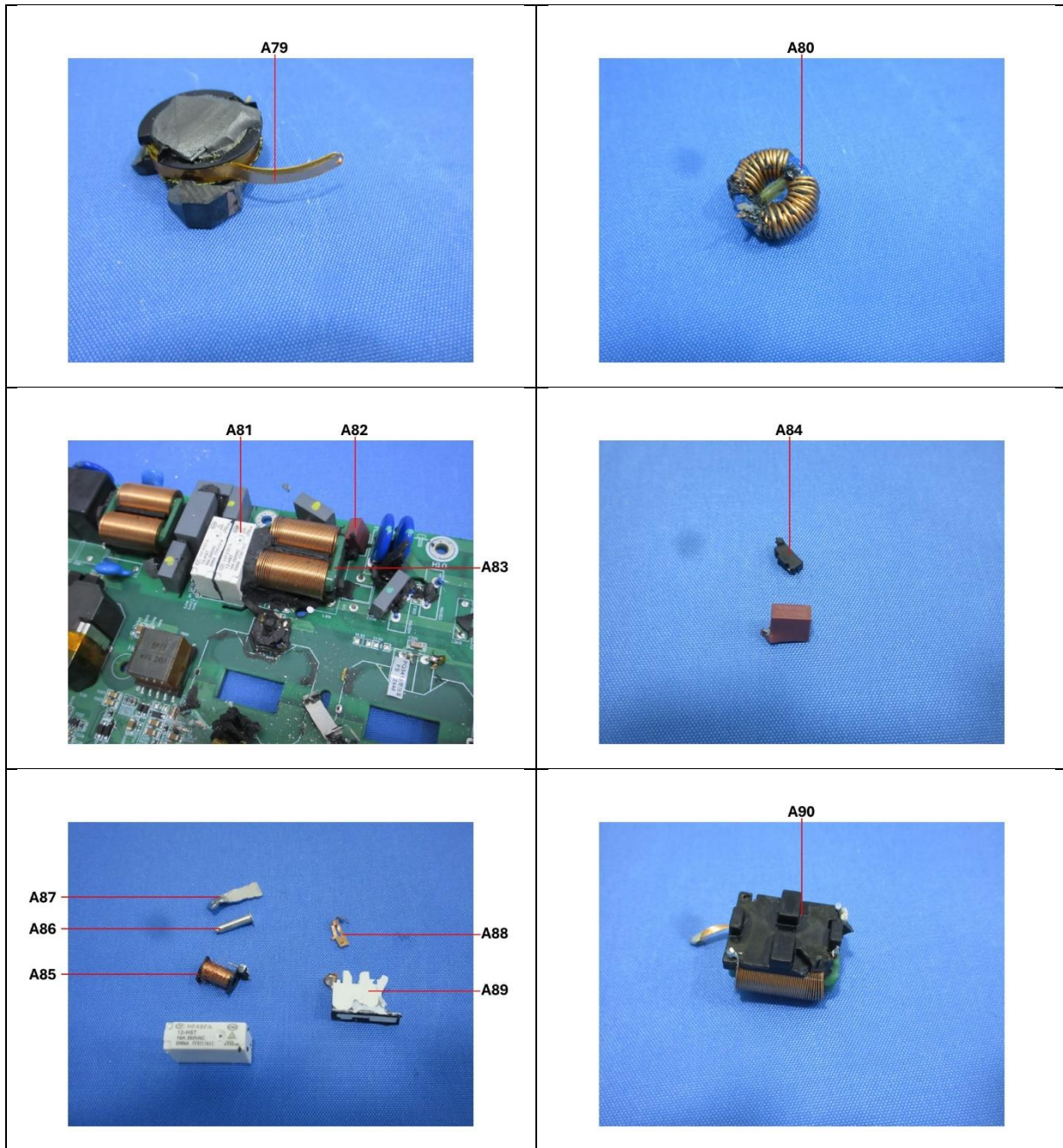


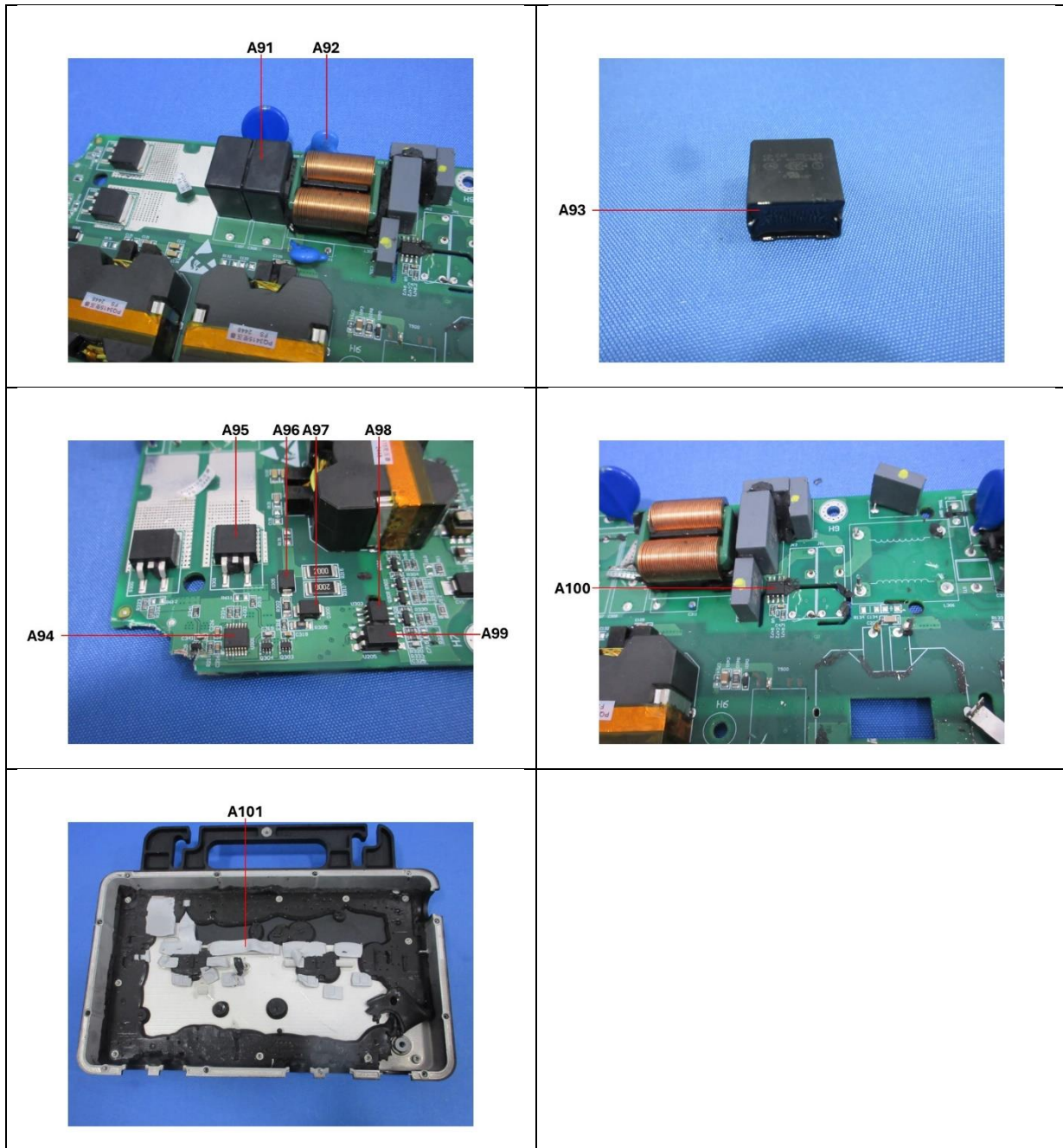












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