

Verification Report

No. TAOEC2400428301

Date: 01 Mar 2024

Page 1 of 7

Client Name : JINZHOU KAIMEI POWER CO.,LTD.

Client Address : NO.141 JINYI STREET,LINGHE DISTRICT,JINZHOU CITY,LIAONING PROVINCE,China

Sample Name : WINDING SUPERCAPACITOR

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

SGS Job No. : QDP24-000573 - QD

Date of Sample Received : 20 Feb 2024

Verification Period : 20 Feb 2024 - 26 Feb 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 (PBBs), Polybrominated diphenyl ethers (PBDEs), 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 (Qingdao) Co., Ltd.

Justin

Zhang Bo, Justin
Approved Signatory

scan to see the report



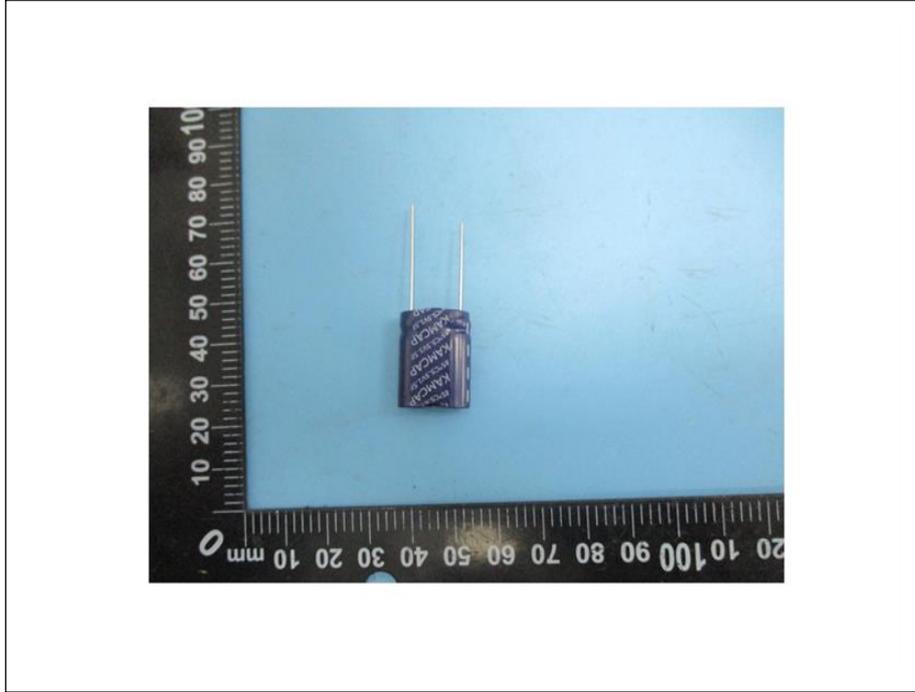
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Photo of Submitted Sample



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+AMD1:2017, IEC62321-5:2013, IEC 62321-7-1:2015, IEC 62321-7-2:2017, ISO 17075-1:2017, IEC 62321-6:2015 and IEC62321-8:2017, analyzed by ICP-OES, AAS,UV-Vis and GC-MS.

Verification Part Description :

| SN ID | Sample No | SGS Sample ID | Description |
|-------|-----------|------------------|------------------------------|
| SN1 | A1 | TAO24-004283.001 | Blue plastic |
| SN2 | A2 | TAO24-004283.002 | Silvery metal |
| SN3 | A3 | TAO24-004283.003 | Silvery metal(soldering tin) |
| SN4 | A4 | TAO24-004283.004 | Blue plastic |
| SN5 | A5 | TAO24-004283.005 | Black rubber |
| SN6 | A6 | TAO24-004283.006 | Black plastic |
| SN7 | A7 | TAO24-004283.007 | Silvery metal |



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| SN ID | Sample No | SGS Sample ID | Description |
|-------|-----------|------------------|-------------------------------|
| SN8 | A8 | TAO24-004283.008 | Yellow plastic(adhesive tape) |
| SN9 | A9 | TAO24-004283.009 | White paper |
| SN10 | A10 | TAO24-004283.010 | Black coating |
| SN11 | A11 | TAO24-004283.011 | Silvery metal |



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Verification Results :

(Unless otherwise specified, the unit is mg/kg).

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

| Test Item(s) | A9 | A10 | A11 |
|-------------------|-------------|-------------|-------------|
| Pb | BL | BL | BL |
| Cd | BL | BL | BL |
| Hg | BL | BL | BL |
| Cr(VI)▼ | BL | BL | BL |
| PBBs | BL | BL | --- |
| PBDEs | BL | BL | --- |
| DBP | BL | BL | --- |
| BBP | BL | BL | --- |
| DEHP | BL | BL | --- |
| DIBP | BL | BL | --- |
| Conclusion | 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 62321-1:2013 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 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 PBBs/PBDEs) 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 | $BL \leq 600 < X$ |
| Benzylbutyl 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 PBBs and PBDEs 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 0.10µg/cm².



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(c) ▼ =Metal sample

- a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13µg/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 0.10µg/cm²).
The coating is considered a non-Cr(VI) based coating
- c. The result between 0.10µg/cm² and 0.13µg/cm² is considered to be inconclusive
- unavoidable coating variations may influence the determination

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)/PBBs/PBDEs/DEHP/DBP/BBP/DIBP: 0.1%. The limit is quoted from RoHS Directive (EU) 2015/863.

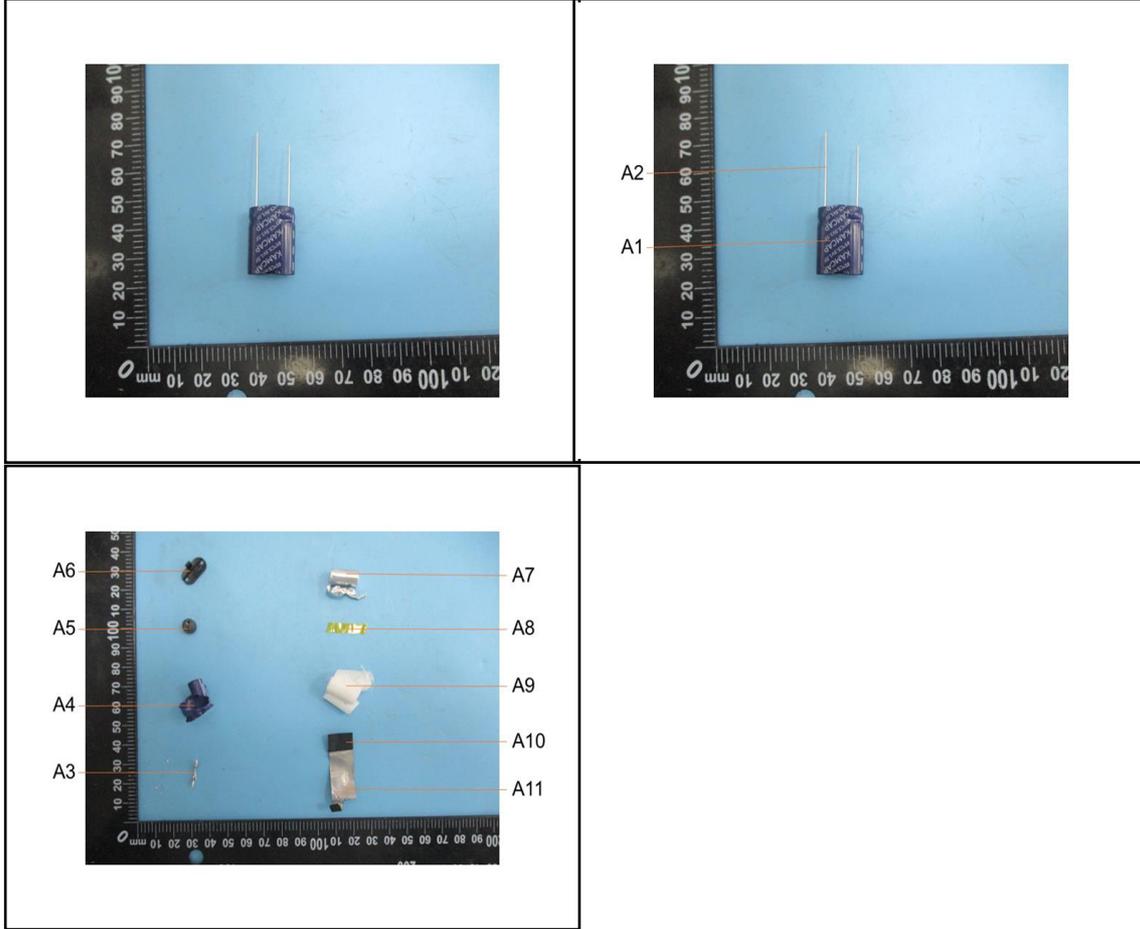
(5) IEC 62321 series is equivalent to EN 62321 series.

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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Sample photo:



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*** End of Report ***

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