

Report No. 48.400.15.7080.00-00/01

Dated 2015-02-15



China

## Technical Report

**Applicant:** Xindao B.V.  
P.O. Box 3082, 2280 GB, Rijswijk, The Netherlands

**Contact Person:** Kevin ZHOU

**Manufacture:** Same as the Applicant.

**Sample Description:** The tested object(s) was(were) submitted and described by client as:  
Sample description: 2200mAh, Powerbank  
Style No. P324.05



Additional covered products reference please refer to Appendix I at page 9.

**Purpose of Evaluation:** Assessment in accordance with the requirement of WEEE Directive 2012/19/EU (recast of 2002/96/EC) Article 4&11

**Evaluation:** Part A- Sample disassembly  
Part B- Product Design (2012/19/EU Article 4)  
Part C- Theoretical sum of reuse, recycling and recoverable weight percentages of materials (2012/19/EU Article 11)

**Conclusion :** **WEEE Compliance: 2012/19/EU-Article 4&11** **PASS**

**Remarks:** This technical report was based on the submitted product by the requirement of client.

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**1. Order**

**1.1 Date of Purchase Order**  
2015-02-15

**1.2 Customer's Reference**  
Nil

**1.3 Receipt Date of Test Sample**  
2015-02-15

**1.4 Date of Testing**  
2015-02-15

**1.5 Document submitted**  
Nil

**1.6 Location of Testing**  
TÜV PS WUX

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## 2. Description of the evaluated product

### 1.1 Picture of product

| Product               | Model   | Photograph  |
|-----------------------|---------|---|
| 2200mAh,<br>Powerbank | P324.05 |  |

### 2.2 Product weight

Product weight before disassembly: 37.15g

Product weight after disassembly: 37.11g

Lost rate: <0.1%

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### 3. Conformity Evaluation

#### Part A- Sample disassembly

| Item | Component   | Description        | Material   | Weight (Gram) | Remark                        |
|------|---|--------------------|------------|---------------|-------------------------------|
| 01   |    | Plastic shell      | Plastic    | 17.55         | Reuse/Recycling & Recoverable |
| 02   |   | USB charge wire    | PVC/Copper | 15.04         | Reuse/Recycling & Recoverable |
| 03   |  | Metal spring & bar | Metal      | 1.21          | Reuse/Recycling & Recoverable |

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## Part A- Sample disassembly

| Item | Component  | Description                     | Material      | Weight (Gram) | Remark                            |
|------|--|---------------------------------|---------------|---------------|-----------------------------------|
| 04   |   | Adhesive sponge                 | miscellaneous | 0.04          | Recoverable                       |
| 05   |  | PCB board & electric components | miscellaneous | 3.27          | No- Reuse/Recycling & Recoverable |

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#### Part B- Product Design (2012/19/EU Article 4)

| Requirement  | Observation                              | Conformance |
|--|--|-------------|
| Design and production of electrical and electronic equipment which take into account and facilitate dismantling and recovery of the components and materials. The design features or manufacturing processes do not prevent the product from being reused. | Different parts can be separated easily. | Y           |

#### Part C- Theoretical sum of reuse, recycling and recoverable weight percentages of materials (2012/19/EU Article 11 & ANNEX V)

The reuse and recycling weight and recoverable weight % of the samples:

| Product               | Reuse + Recycling weight % | Recoverable weight % | Conformance <sup>#</sup> |
|-----------------------|----------------------------|----------------------|--------------------------|
| Requirement*          | 65                         | 70                   | /                        |
| 2200mAh,<br>Powerbank | 90.98                      | 91.09                | Y                        |

<sup>#</sup> Conformance means reuse and recycling weight percentage is greater than 65 and recoverable weight percentage is greater than 70.

\* The requirement is quoted from Annex IA of Directive 2012/19/EU for product classified as Category 3

#### TÜV SÜD Certification and Testing (China) Co., Ltd.

Prepared by:



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Checked by:



Mr. Yongfeng DU

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## Annex I: Definition of Reuse, Recycling and Recovery

**'Reuse'** means any operation by which WEEE or components thereof are used for the same purpose for which they were conceived, including the continued use of the equipment or components thereof which are returned to collection points, distributors, recyclers or manufacturers

**'Recycling'** means the reprocessing in a production process of the waste materials for the original purpose or for other purposes, but excluding energy recovery which means the use of combustible waste as a means of generating energy through direct incineration with or without other waste but with recovery of the heat

**'Recovery'** means any of the applicable operations provided for in Annex IIB to Directive 75/442/EEC as follow:

- R 1 Use principally as a fuel or other means to generate energy
- R 2 Solvent reclamation/regeneration
- R 3 Recycling/reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes)
- R 4 Recycling/reclamation of metals and metal compounds
- R 5 Recycling/reclamation of other inorganic materials
- R 6 Regeneration of acids or bases
- R 7 Recovery of components used for pollution abatement
- R 8 Recovery of components from catalysts
- R 9 Oil re-refining or other reuses of oil
- R 10 Land treatment resulting in benefit to agriculture or ecological improvement
- R 11 Use of wastes obtained from any of the operations numbered R 1 to R 10
- R 12 Exchange of wastes for submission to any of the operations numbered R 1 to R 11
- R 13 Storage of wastes pending any of the operations numbered R 1 to R 12 (excluding temporary storage, pending collection, on the site where it is produced)

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## Annex II: Recycling and Recovery Rate Calculation

Reuse Recycling& Recovery Rate applied herewith are calculated as following:

$$\text{Reuse \& Recycling Rate} = \frac{\text{Reuse \& Recycling Weight}}{\text{Product Total Weight}} \quad (\%)$$

$$\text{Recovery Rate} = \frac{\text{Recovery Weight}}{\text{Product Total Weight}} \quad (\%)$$

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## APPENDIX I

### Photographs of covered models



#### Remarks:

The above photographs of cover models were only based on client's request and guarantee letter (self-declaration). TÜV SÜD takes no responsibility for any mistakes and the problems of product consistency caused by inaccurate and/or invalid information submitted by the client.

-End of Report-

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