

Test Report

Report No.:U00906230807122-5ER1

Query Password: QW5953

Date: Aug. 22, 2023

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Applicant Global Tax Refund Holdings Company Limited**Contact information** 6/F MANULIFE PLACE 348 KWUN TONG ROAD KL**The following sample(s) was (were) submitted and identified by client as:**

Sample Description : Balcony Power Station

Style/Item No. : B215

Trade mark :



Received Date : Aug. 7, 2023

Testing Period : From Aug. 7, 2023 to Aug. 10, 2023

Test Request : Please refer to next page(s).

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

Shen Zhen UONE Test Co., LTD.

Prepared by

Handwritten signature of Max Wu.

Max Wu

Checked by

Handwritten signature of Thea Ye.

Thea Ye

Approved by

Handwritten signature of Hedy Xu.

Hedy Xu

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1. General Information

Product Name	Balcony Power Station
Model	B215
Category under the WEEE Directive	Small equipment (no external dimension more than 50 cm)

2. Result of Reuse/Recycling/Recovery Assessment

Reuse/Recycling/Recovery	Re-use/Recycled (%)	Recovered (%)
Reuse/Recycling/Recovery Targets under the 2012/19/EU WEEE Directive its subsequent amendments	55	75
Result of Assessment	86.36	87.07
WEEE requirement compliance	PASS	PASS

3. Appearance of the Product

	
A1	A2

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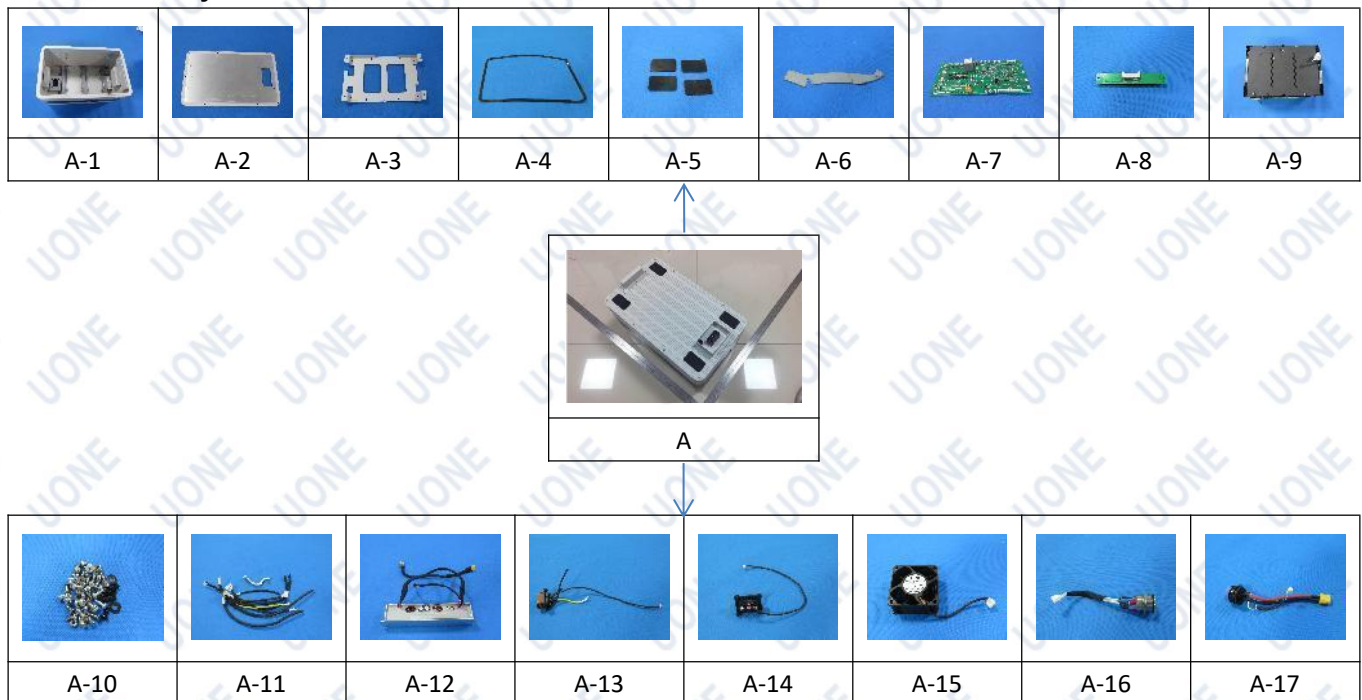
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4. Selective Treatment for Materials and Components

According to Articles 8(2) and the Annex VII of the WEEE Directive, this product contains components and material items are described in the following table.

Sample	Component/materials	Serial Number	Picture	Weight(g)
Balcony Power Station	PCB(>10cm ²)	A-7		325.78
	PCB(>10cm ²)	A-8		7.12
	Battery	A-9		17756.32
	PCB(>10cm ²)	A-12-1		356.45

5. Disassembly Tree



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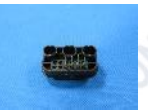
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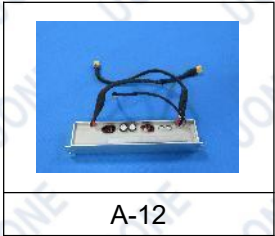
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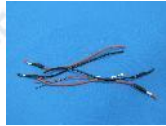

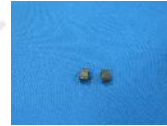
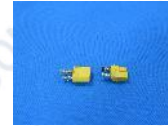
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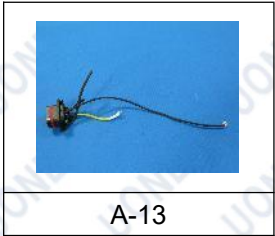
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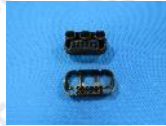


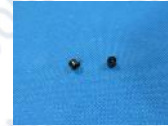
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A-14-1	A-14-2	A-14-3	A-14-4	A-14-5



						
A-12-1	A-12-2	A-12-3	A-12-4	A-12-5	A-12-6	A-12-7



						
A-13-1	A-13-2	A-13-3	A-13-4	A-13-5	A-13-6	A-13-7

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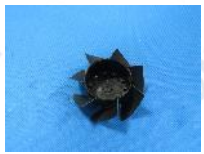



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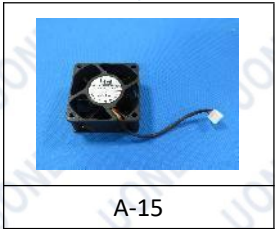
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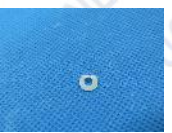

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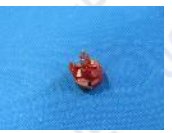

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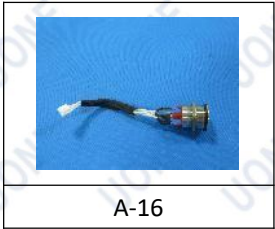
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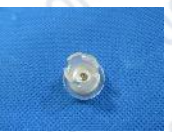

					
A-15-1	A-15-2	A-15-3	A-15-4	A-15-5	A-15-6



						
A-15-7	A-15-8	A-15-9	A-15-10	A-15-11	A-15-12	A-15-13

						
A-16-1	A-16-2	A-16-3	A-16-4	A-16-5	A-16-6	A-16-7



						
A-16-8	A-16-9	A-16-10	A-16-11	A-16-12	A-16-13	A-16-14

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A-17-1	A-17-2	A-17-3	A-17-4	A-17-5	A-17-6	A-17-7	A-17-8

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6. Disassembly Procedure

The disassembly procedure taken here is in accordance with the treatment requirements under the Annex II of the WEEE Directive. In addition, to consider economic and efficiency factors, manual operation and disassembly tools have been applied to separate the components and materials from this product in order to simulate the scenario at the treatment facility, and to achieve the objective that the separated components and materials can be reused, recycled and recovered.


6.1 Connection technique:

For each product, the connection technology including as following:

Screw:55	Welding:26	Adhere:18
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6.2 Disassembly tool:

The disassembly tools used for this product show as following:

Disassembly Tool	Pictures
Multi-purpose screwdriver set、Scalpel、Diagonal pliers	

6.3 Disassembly time:

125 minutes

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7. Material and Recycling Information

According to the information declared by the applicant company, the material and recycling information for this product is described in the following table. The reuse, recycling and recovery assessment for this product is based upon economic and efficiency considerations, and the waste treatment technologies and equipment that are most frequently available to the market.

Component / Material Composition	Weight (g)	Percent Weight (%)	Reuse/ Recycling (%)	Energy Recovery (%)	Recovery (%)
Plastic	1378.3	4.40	3.87	--	3.87
Iron/steel	11196.23	35.70	34.99	--	34.99
Copper alloy	78.98	0.25	0.20	--	0.20
Battery	17756.32	56.62	45.30	--	45.30
PCB	689.35	2.20	1.98	--	1.98
Magnet	8.13	0.03	0.02	--	0.02
Connecting line	237.88	0.76	--	0.68	0.68
Fabric	10.09	0.03	--	0.03	0.03
Total	31358.89	99.99	86.36	0.71	87.07

Note:

Due to their insignificant weight and the difficulty of their separation in a manual operation, sticker, solder, paint and printing materials are not included in this assessment. Plastic containing brominated flame retardants is not assessed in the list.

8. Recycling and Recovery Rate Calculation

Reuse Recycling& Recovery Rate using in the report are calculated as following formulas:

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

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

Total weigh of the product is including the main product and accessories.

9. ANNEX VII of WEEE Directive

Selective treatment for materials and components of waste electrical and electronic equipment:

— Polychlorinated biphenyls (PCB) containing capacitors in accordance with Council Directive 96/59/EC of 16

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September 1996 on the disposal of polychlorinated biphenyls and polychlorinated terphenyls (PCB/PCT) (1),

— Mercury containing components, such as switches or backlighting lamps,

10. Recommendations for WEEE Directive Compliance

- In order to avoid the product not meeting the reuse/recycling/recovery targets regulated under the WEEE Directive and the regulations of EU countries, the applicant company should, when selecting material and components design, consider they can be easy to reuse and recycle. This consideration will lessen the impact of the required international environmental directives and also improve the product's competitiveness.
- It is recommended that the applicant company, when designing new product, especially where components and materials have a large weight ratio, should consider using recyclable materials in order to increase the product's reuse/recycling/recover ratio.
- The product should apply to the RoHS Directive (Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronics equipment). The hazardous substance specification in the Directive should be controlled in the homogenous material of this product.
- If a product has changed its product design, or materials or components employed, then the product should be reassessed and retested in accordance with the WEEE Directive for reuse/recycling/recovery assessment and RoHS for restricted/banned substances requirements.

Remark:

1. The test result(s) is(are) copied from the test report No. U00906230807122-1E, dated Aug. 22, 2023.
2. This report replaces the report whose report No. is U00906230807122-5E. The original report No. is U00906230807122-5E will be automatically nullified on the date of issuance of this report.

End of Report

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Statement

1. The information as listed on the first page of this test report was all provided by the client except the received date, testing period, test result(s) and test request. The client shall be responsible for the representativeness of sample and authenticity of materials, for which UONE shall bear no responsibilities.
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