

Test Report

Number: SHAH01412059

Applicant: SHANGHAI HOTO TECHNOLOGY CO., LTD.
BUILDING 45, NO. 50 MOGANSHAN
ROAD, PUTUO DISTRICT, SHANGHAI, CHINA

Date: 15 Dec, 2021

Attn: WANG QI

Sample Description:

One(1) group of submitted sample said to be :

Item Name : **HOTO Portable Electric Air Compressor**
Item No. : **QWCQB001**
Quantity : **3**
Packaging Provided By Applicant : **Yes**
Goods Exported To : **China ,Europe, North America ,South Korea**
Country Of Origin : **China**

Tests Conducted:

As requested by the applicant, for details refer to attached page(s).

To be continued

Authorized By:
Intertek Testing Services Ltd. Zhejiang



Peter Chen
General Manager



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1. Product Information

Date Sample Received : Dec. 7,2021
Assessment Period : Dec. 7,2021 to Dec. 7,2021
Product Size : 15.8cm*9.5cm*4.4cm
Product Weight : 468.60g
Category under the WEEE Directive :
The 5th Small equipment

2. Result of Reuse/Recycling/Recovery Assessment

	Rate of Reuse/Recycling (%)	Rate of Recovery (%)
Reuse/Recycling/Recovery Target under the 2012/19/EU WEEE Directive	55	75
Result of Assessment	83.79	90.99
WEEE Compliance	Pass	Pass



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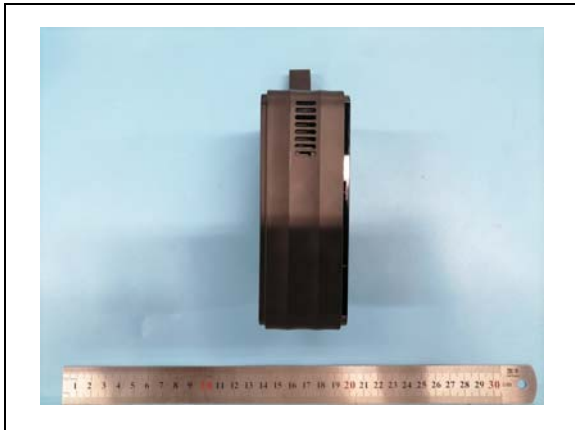
3. Product Overview



Front



Back



Left Side



Right Side



Top



Bottom

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4. Disassembly Assessment

4.1 Disassembly Method

The submitted sample is disassembled into different parts by using ordinary tools. Similar materials from each part were grouped and weighed. The recycling and recovery rates were calculated based on the treatment requirements as set up in the WEEE directive, followed by the best available technology for recycling and recovery technology. Materials for which currently no recycling technology is available or where the recycling is not economically feasible, or which contain hazardous substances, are assumed to be disposed of in landfills without further use.

4.2 Disassembly Tools

The disassembly tools used for this product show as following:

Disassembly Tool	Picture	Disassembly Tool	Picture
Flat Headed Screwdriver		Wire-cutter	
Long Nose Plier		Cloth Scissor	
Scissor		Pruning Shears	

4.3 Connection Technique

Adhere : 4
Insert : 4
Screw : 17
Welding : 56

4.4 Disassembly Time

37 Minutes and 23 Seconds

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4.5 Disassembly Tree



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4.6 Selective Treatment for Materials and Components

According to the information provided by client and the Annex VII of the WEEE Directive, the product (s) does /do not contain components and materials to be selective treated.

Article 8(2) and the Annex VII of the WEEE Directive, this product contains following components and materials to be selective treated.

Material /Component	Photo No.	Size	Quantity	Weight (g)
PCB	D	38.4cm ²	1	7.52
PCB	E	27.6cm ²	1	3.21
Battery	F	43.03g	2	86.06

5. Material Recycling Information

Based on the information declared by the applicant, the material and recycling information for the product is described in the following table.

The assessment of reuse, recycling and recovery for this product is based on economic and efficiency considerations, and followed by the best available technology for recycling and recovery technology.

Material components	Photo No.	Weight (g)	Percent Weight (%)	Reuse/ Recycling Rate (%)	Energy Recycling Rate (%)	Recovery Rate (%)
Plastic	A	135.27	28.87	25.41	0	25.41
Metal	B	79.26	16.91	16.57	0	16.57
Other plastic	C	32.72	6.98	0	6.28	6.28
PCB	D	7.52	1.60	1.44	0	1.44
PCB	E	3.21	0.69	0.62	0	0.62
Battery	F	86.06	18.37	14.70	0	14.70
Metal with plastic	G	124.56	26.58	25.05	0.92	25.97
Total		468.60	100	83.79	7.2	90.99

Note:

1. Plastic containing brominated flame retardants / Components that contain asbestos / Cartridges and parts that contain toner and ink / Capacitors or condensers that contain polychlorinated biphenyl or polychlorinated terphenyl (PCB or PCT) / Gas discharge lamps is / are not assessed in the list.

2. Due to the negligible weight and difficult separation by manual operation, surface coating, paint and printing, solder, sticker are not included in this assessment.



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6. Reuse/Recycling and Recovery Rate Calculation

Reuse/Recycling and Recovery Rate using in the report are calculated as follow formulas:

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

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

7. ANNEX VII of WEEE Directive (2012/19/EU)

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

As a minimum the following substances, preparations and components have to be removed from any separately collected WEEE:

- Polychlorinated biphenyls (PCB) containing capacitors in accordance with Council Directive 96/59/EC of 16 September 1996 on the disposal of polychlorinated biphenyls and polychlorinated terphenyls (PCB/PCT).
- Mercury containing components, such as switches or backlighting lamps.
- Batteries.
- Printed circuit boards of mobile phones generally, and of other devices if the surface of the printed circuit board is greater than 10 square centimeters.
- Toner cartridges, liquid and pasty, as well as colour toner.
- Plastic containing brominated flame retardants.
- Asbestos waste and components which contain asbestos.
- Cathode ray tubes.
- Chlorofluorocarbons (CFC), hydrochlorofluorocarbons (HCFC) or hydrofluorocarbons (HFC), hydrocarbons (HC).
- Gas discharge lamps.
- Liquid crystal displays (together with their casing where appropriate) of a surface greater than 100 square centimeters and all those back-lighted with gas discharge lamps.
- External electric cables.
- Components containing refractory ceramic fiber as described in Commission Directive 97/69/EC of 5 December 1997 adapting to technical progress Council Directive 67/548/EEC relating to the classification, packaging and labeling of dangerous substances.
- Components containing radioactive substances with the exception of components that are below the exemption thresholds set in Article 3 of and Annex I to Council Directive 96/29/Euratom of 13 May 1996 laying down basic safety standards for the protection of the health of workers and the general public against the dangers arising from ionising radiation.
- Electrolyte capacitors containing substances of concern (height > 25 mm, diameter > 25 mm or proportionately similar volume).

These substances, mixtures and components shall be disposed of or recovered in compliance with Directive 2008/98/EC.

8. Recommendations for WEEE Directive Compliance

- In order to make the product comply with the reuse/recycling/recovery target required under WEEE Directive (2012/19/EU) and the regulations of EU countries, the applicant company should consider the product they design can be easily reused and recycled by selecting recyclable materials and components.
- To make the product easily dismantled, less the disassembling time, the applicant company should design the product for easy disassembly by choosing easy separate techniques, avoiding the utilizing embedded components, designing the separable procedure.
- The product should comply with the RoHS Directive (2011/65/EU), restricting using specified hazardous substance in the



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homogenous material of the product.

- If a product has change the design, or employ materials or components, then the product should be reassessed and retested in accordance with the WEEE Directive for reuse/recycle/recycling target and RoHS for restricted substances requirement.
- The applicant company should take attention to the future possible update concerning the WEEE Directive and related requirement.

Remark: Test Item is subcontracted to the organization accredited by CNAS with code of CNAS L3439.

End of report

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