

Test Report

Number: SHAH01459159S1

Applicant: CHONGQING RATO TECHNOLOGY CO.,LTD.
ZONE B, SHUANGFU INDUSTRY
PARK,JIANGJIN DISTRICT,CHONGQING
CHINA

Date: Jun 10, 2022

Attn: ZHANG YU

*THIS IS TO SUPERSEDE REPORT
NO. SHAH01459159 DATED 10 Jun,
2022*

Sample Description:

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

Item Name : Low Power Generating sets(Ecoflow Smart Generator Dual Fuel)
Item No. : EFG200
Quantity : 1
Packaging Provided By Applicant : Yes
Buyer : ECOFLOW INC.
Goods Exported To : EU
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



Test Report

Number: SHAH01459159S1

Tests Conducted

1. Product Information

Date Sample Received : Jun.2,2022
Assessment Period : Jun.2,2022 to Jun.7,2022
Product Size : 60.0cm*42.0cm*29.0cm
Product Weight : 32400.39g
Category under the WEEE Directive :
The 4th Large 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	80	85
Result of Assessment	84.24	94.04
WEEE Compliance	Pass	Pass

3. Product Overview



Front



Back



Left Side

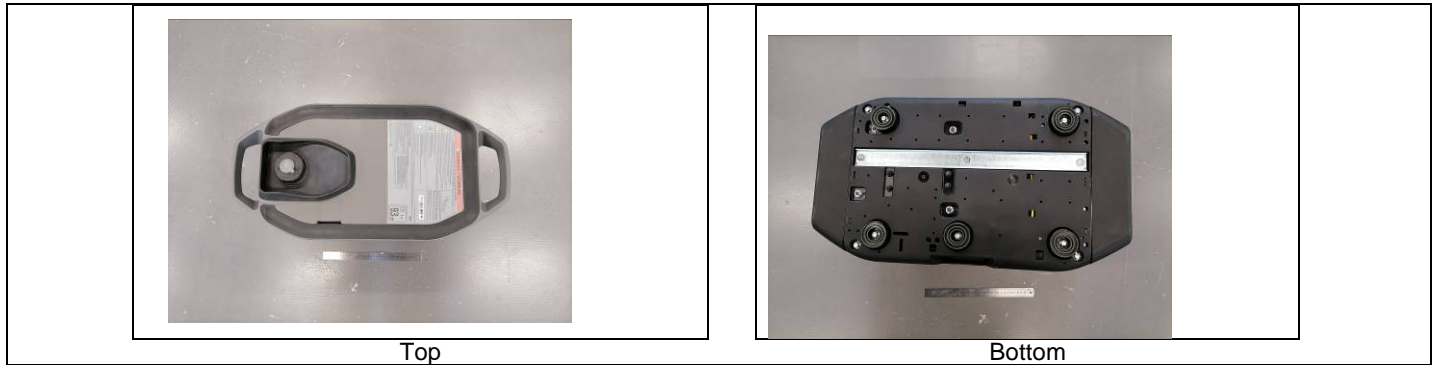


Right Side

Test Report

Number: SHAH01459159S1

Tests Conducted









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
Cross Screwdriver		Adjustable Spanner	
Sleeve		Combination Wrench	
Pruning Shears		Plum Screwdriver	

4.3 Connection Technique

Adhere : 7
 Bolted Joint : 67
 Insert : 30
 Screw : 89
 Snap : 5
 Spring : 9

4.4 Disassembly Time

26 Minutes and 14 Seconds



Test Report

Number: SHAH01459159S1

Tests Conducted
4.5 Disassembly Tree



A1

A2

B1



B2



B3



C



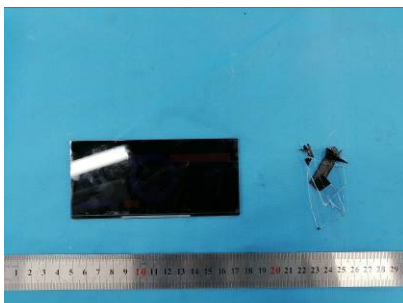
D



E



F



Test Report

Number: SHAH01459159S1

Tests Conducted



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)
Battery	G	12.6cm*6.9cm	1	392.87
PCB	H1	14.8cm*10.5cm; 6.6cm*4.7cm; 5.1cm*4.6cm	3	115.53
PCB	H2	21.8cm*10.4cm	1	1472.31
PCB	H3	21.8cm*13.5cm	1	2031.26

Test Report

Number: SHAH01459159S1

Tests Conducted

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 parts (PP,PA,PC...)	A1,A2	6050.11	18.67	16.43	0	16.43
Metals	B1,B2,B3	17613.45	54.36	53.27	0	53.27
Copper	C	192.76	0.60	0.48	0	0.48
Glass	D	62.80	0.19	0.19	0	0.19
Plastic mix others than PE,PP,ABS,PS,PC	E	2112.40	6.52	0	5.87	5.87
Metals with plastics	F	2356.90	7.28	2.85	3.93	6.78
Battery	G	392.87	1.21	0.97	0	0.97
PCB	H1,H2,H3	3619.1	11.17	10.05	0	10.05
Total		32400.39	100	84.24	9.8	94.04

Note:

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

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.



Test Report

Number: SHAH01459159S1

Tests Conducted

- 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 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.

End of report

This report is made solely on the basis of your instructions and/or information and materials supplied by you. It is not intended to be a recommendation for any particular course of action. Intertek does not accept a duty of care or any other responsibility to any person other than the Client in respect of this report and only accepts liability to the Client insofar as is expressly contained in the terms and conditions governing Intertek's provision of services to you. Intertek makes no warranties or representations either express or implied with respect to this report save as provided for in those terms and conditions. We have aimed to conduct the Review on a diligent and careful basis and we do not accept any liability to you for any loss arising out of or in connection with this report, in contract, tort, by statute or otherwise, except in the event of our gross negligence or wilful misconduct.

This report shall not be reproduced except in full, without written approval of the laboratory.



To: CHONGQING RATO TECHNOLOGY CO.,LTD.
Attention: ZHANG YU

Date: Jun 10, 2022

Re: Report Revision Notification

Intertek Testing Services Report Number SHAH01459159 Dated Jun 08, 2022.

Please be informed that all the content recorded in the above captioned report will be void. This captioned report is now superseded by a revised Intertek Testing Services Report Number **SHAH01459159S1**.

Reason for report revision: Typing error of sample information.

Thank you for your attention.

Authorized By:
Intertek Testing Services Ltd. Zhejiang



Peter Chen
General Manager

