



Evaluation Report
For
Product Recoverable According to
WEEE Directive (2012/19/EU)

Prepared for : Megapower Product Company Limited
Address : 3/F, No. 26 Building, Zhongnan Gaoke Intelligent Technology Industrial Park, Xingtan, Shunde, Foshan, Guangdong, China

Prepared by : NTEK Testing Technology Co., Ltd.
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Report No. : DGC220907030LE01
Date of Report : Sept. 16, 2022

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Applicant : Megapower Product Company Limited
Address : 3/F, No. 26 Building, Zhongnan Gaoke Intelligent Technology Industrial Park,
Xingtan, Shunde, Foshan, Guangdong, China

The following sample(s) was/were submitted and identified on behalf of the client as:

Product Name : CHARGING TROLLEY
Model : 80236, 80224, MP02-36ports, MP02-24ports
Manufacturer : Megapower Product Company Limited
Address : 3/F, No. 26 Building, Zhongnan Gaoke Intelligent Technology Industrial Park,
Xingtan, Shunde, Foshan, Guangdong, China

Product Weight : 14934.6g**Test requested**

As specified by client, to evaluation the product recoverable in accordance with WEEE Directive 2012/19/EU.

Conclusion

Pass

Category of product:

The Fourth Category -Large equipment (outside length more than 50 cm).

Written by:

Lora Lv

Approved by:Richard Ke
(Signed for and on behalf)

Kaga Au

Sept. 16, 2022

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1. Disassembly process

1.1 Disassembly Tree:



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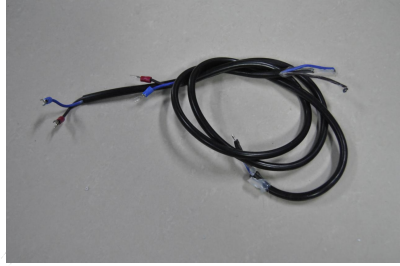
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Test Report



A9



A10



A11



A12



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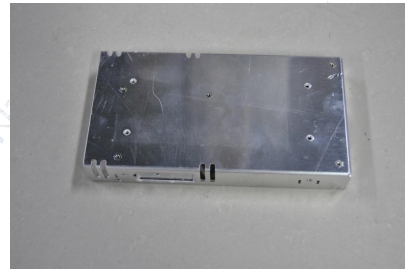
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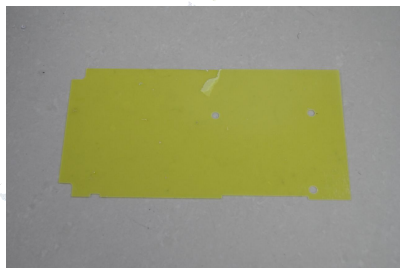
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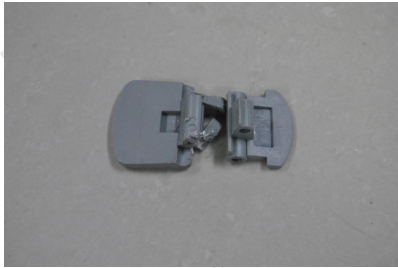
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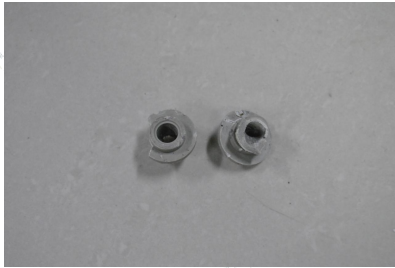
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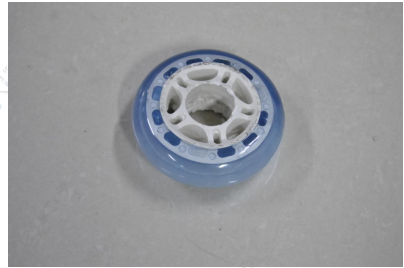
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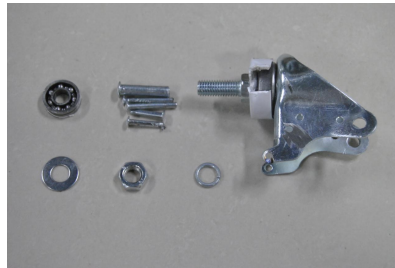
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1.2 Disassembly Procedure description:

The disassembly process is based on technical judge of professionals and consider economic and efficiency factors, then formulate reasonable disassembly procedure for product.

The disassembly process is done by manual operation or with simple dismantling tools (such as screwdrivers, pliers, etc.). Product is disassembled into components or materials to simulate actual recovery process after the product is discarded, then statistics the recovery rate of the product.



The separated components and materials by mechanically is considered to be recoverable.

1.3 Product connection technique:

For this product, the main connection technology include threaded connection.

1.4 Disassembly tool:

The disassembly tools used for this product show as following:

Disassembly Tool	Pictures
Pliers	
Screwdrivers	

1.5 Disassembly time:

About 2 hours

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2. Recoverable Assessment:

2.1 Recoverable Information of materials and components:

According to the information declared by the applicant company, the material and recoverable information for this product is described in the following table.

Photo No.	Components	Material Composition	Weight (g)	Re-use + Recycling		Energy Recovery Weight (g)	Recovery	
				Rate (%)	Weight (g)		Rate (%)	Weight (g)
A1	Beige plastic sheet	Plastic	1076	94	1011.4	0	95	1022.2
A2	Grey plastic shelf	Plastic	4808.4	94	4519.9	0	95	4568.0
A3	White plastic box	Plastic	3066.6	94	2882.6	0	95	2913.3
A4	Green pcb board	Pcb board	235	14	32.9	0	57	134.0
A5	Copper coil	Wire	119	85	101.2	0	85	101.2
A6	Beige hot melt adhesive	Other polymers	12	0	0.0	0	5	0.6
A7	White foam pad	Other polymers	32.6	0	0.0	0	5	1.6
A8	Dc plug cord	Wire	104.8	24	25.2	0	24	25.2
A9	Black cable grommet	Wire	112.2	24	26.9	0	24	26.9
A10	Red connecting wire	Wire	34.8	24	8.4	0	24	8.4
A11	Blue connecting wire	Wire	33.8	24	8.1	0	24	8.1
A12	Yellow-green cable	Wire	5.2	24	1.2	0	24	1.2
A13	Black plastic connector	Plastic	10.8	94	10.2	0	95	10.3
A14	White foam sticker	Other polymers	7.2	0	0.0	0	5	0.4
A15	Silver metal screws	Metal	146	94	137.2	0	94	137.2
A16	Silver metal cover	Metal	177.8	94	167.1	0	94	167.1
A17	Silver aluminum shell	Aluminum	204.4	91	186.0	0	91	186.0
A18	Yellow plastic sheet	Plastic	17.8	94	16.7	0	95	16.9

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Photo No.	Components	Material Composition	Weight (g)	Re-use + Recycling		Energy Recovery Weight (g)	Recovery	
				Rate (%)	Weight (g)		Rate (%)	Weight (g)
A19	Power board	Power board	507	14	71.0	0	57	289.0
A20	Off-white plastic rod	Plastic	1576.6	94	1482.0	0	95	1497.8
A21	Blue plastic sleeve	Plastic	314	94	295.2	0	95	298.3
A22	Light blue plastic tube	Plastic	38.4	94	36.1	0	95	36.5
A23	Grey plastic cap	Plastic	36.6	94	34.4	0	95	34.8
A24	White soft rubber ring	Other polymers	7.6	0	0.0	0	5	0.4
A25	Power cable	Wire	295.2	24	70.8	0	24	70.8
A26	White plastic case	Plastic	155.2	94	145.9	0	95	147.4
A27	Light grey plastic barrel	Plastic	224	94	210.6	0	95	212.8
A28	Black sticker	Other polymers	2.2	0	0.0	0	5	0.1
A29	Yellow-green screw	Metal	25	94	23.5	0	94	23.5
A30	Dark grey plastic sheet	Plastic	49	94	46.1	0	95	46.6
A31	Taupe plastic bearing housing	Plastic	17	94	16.0	0	95	16.2
A32	Light blue soft rubber wheel + white plastic parts	Other polymers	328	0	0.0	0	5	16.4
A33	Black metal parts	Metal	48	94	45.1	0	94	45.1
A34	Silver metal parts	Metal	1106.4	94	1040.0	0	94	1040.0
TOTAL			14934.6	---	12651.7	0	---	13102.0

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2.2 Recovery Rate of the whole product:

Items	Reuse + Recycling Rate (%)	Recovery Rate (%)
Result of assessment	85	88
Recovery target	70	80
Conclusion	Pass	Pass

Note:

1. 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.
2. Plastic containing brominated flame retardants is not assessed in the list.
3. Re-use + Recycling Rate and Recovery Rate Calculation:

Re-use + Recycling Rate = (Re-use weight + Recycling weight) / (Total weight of product) (%)

Recovery Rate = (Re-use weight + Recycling weight + Energy Recovery Weight) / (Total weight of product) (%)

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

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3. Selective treatment for materials and components referred to in Article 8(2):

According to Articles 8(2) and the Annex VII of the WEEE Directive(2012/19/EU), this product contain components and materials which should Selective Treatment as below:

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

— printed circuit boards of mobile phones generally, and of other devices if the surface of the printed circuit board is greater than 10 square centimetres.

2) The following components of WEEE that is separately collected have to be treated as indicated:

— cathode ray tubes: the fluorescent coating has to be removed.

— equipment containing gases that are ozone depleting or have a global warming potential (GWP) above 15, such as those contained in foams and refrigeration circuits: the gases must be properly extracted and properly treated. Ozone-depleting gases must be treated in accordance with Regulation (EC) No 1005/2009,

— gas discharge lamps: the mercury shall be removed.

3) Taking into account environmental considerations and the desirability of preparation for re-use and recycling, points 1 and 2 shall be applied in such a way that environmentally-sound preparation for re-use and recycling of components or whole appliances is not hindered.

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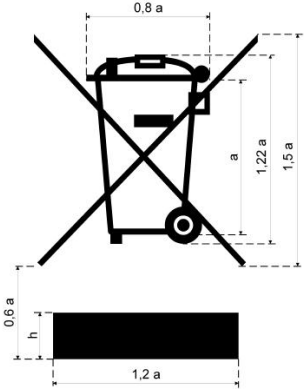
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4. WEEE Symbol Check

Standard symbol of Directive 2012/19/EU	Symbol of product
	<p>This product has not symbol</p>

With a view to minimising the disposal of WEEE as unsorted municipal waste and to facilitating its separate collection, producers shall ensure that appropriately mark—preferably in accordance with the European standard EN 50419—EEE placed on the market with the symbol shown in Annex IX. In exceptional cases, where this is necessary because of the size or the function of the product, the symbol shall be printed on the packaging, on the instructions for use and on the warranty of the EEE.

5. Recommendations for WEEE Directive Compliance:

- In order to avoid the product not meeting the recovery targets regulated under the WEEE Directive and the regulations of EU countries, the manufacturer 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 manufacturer, when designing new product, especially where components and material have a large weight ratio, should consider using recyclable materials in order to increase the product's reuse/recycling /recovery ration;
- 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;
- It is recommended that the manufacturer should marked the information of materials on the product (For example: ">ABS<" indicate that the material is mainly ABS, ">PC+ABS<" indicate that the material is mixture but mainly is PC).

6. According to client's requirement to conduct testing.

End of Report

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