

Test Report

No.: ESZ2212190173C00101RM1

Date: Feb.08, 2023

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Applicant : AUTEL DIGITAL POWER CO.,LTD
Address : FLOORS 1, 2, 3 AND 6 CAIHONG KEJI BUILDING, 36 HI-TECH NORTH ROAD,
 SONGPINGSHAN COMMUNITY, XILI SUB-DISTRICT, NANSHAN DISTRICT,
 SHENZHEN CITY, GUANGDONG, CHINA

Sample Name : Maxi Charger AC Compact (Electric Vehicle Charging Station)
 Maxi KC22SB01, Maxi KC07SB01, Maxi KC07SA01, Maxi EC07SA01,
 Maxi KC22SC01, Maxi KC07SC01, Maxi KC22SA01, Maxi EC22HC01,
Model : Maxi EC07HC01, Maxi EC22HA01, Maxi EC22CC01, Maxi EC07HA01,
 Maxi EC07CA01, Maxi EC22CA01, Maxi EC22SC01, Maxi EC07CC01,
 Maxi EC07SC01, Maxi EC22SA01
Received Date : Dec.09, 2022
Test Period : Dec.09, 2022~Dec.27, 2022
Revise Date : Feb.08, 2023

Reuse/Recycling/Recovery Assessment Result:

Reuse/ Recycling/ Recovery	Reuse/Recycling(%)	Recovery(%)
Temperature exchange equipment	55	75
Result of Assessment	67.52	83.40
Compliance to WEEE Recovery Targets	PASS	PASS

Signed for and on behalf of
 EMTEK(Suzhou) Co., Ltd

Prepared by:



Zhang Zhifei, Carol
 Assistant engineer

Reviewed by:



Du Shi, Damon
 Technical supervisor

Approved by:


 Jason
 Jiang Yufeng, Jason
 Authorized signatory
 Feb.08, 2023

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1. Product information

1.1 Picture of product prior to disassembly:



Product weight before disassembly: 2349.2g.

Product weight after disassembly: 2347.2g.

Lost rate: 0.09%.

1.2.1 Minimum targets applicable by category from 15 August 2018 with reference to the categories listed in Annex III & Annex IV of WEEE directive.

Category	EEE	Reuse/Recycling	Recovery
1	Temperature exchange equipment	80%	85%
2	Screens, monitors, and equipment containing screens having a surface greater than 100 cm ²	70%	80%
3	Lamps	80%	--
4	Large equipment (any external dimension more than 50 cm)	80%	85%
5	Small equipment (no external dimension more than 50 cm)	55%	75%
6	Small IT and telecommunication equipment (no external dimension more than 50 cm)	55%	75%

Remark: Battery was not within the scope of WEEE, it should comply with the Battery Directive.

1.2.2 Test product category:

This product is classified as category 5 Small equipment (no external dimension more than 50 cm)

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2. Disassembly procedure

The disassembly procedure taken here is in accordance with the treatment requirements under the Annex VII of the WEEE Directive 2012/19/EU. 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 that the evaluation of the rates of reuse, recycling and recovery of the components and materials should be performed by simulating the scenario at the treatment facility.

2.1 Remove component and materials prior to disassembly

According to Article 8(2) and Annex VII of WEEE Directive, component and materials below need to be removed.

- 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) (1),
- 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 centimetres,
- toner cartridges, liquid and paste, 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 centimetres and all those back-lighted with gas discharge lamps,
- external electric cables,
- components containing refractory ceramic fibres as described in Commission Directive 97/69/EC of 5 December 1997 adapting to technical progress for the 23rd time Council Directive 67/548/EEC on the

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approximation of the laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances (2),

- 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 ionizing radiation (3),
- electrolyte capacitors containing substances of concern (height > 25 mm, diameter > 25 mm or proportionately similar volume),
- 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,

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

Component/materials	Picture	Size/Weight(g)
printed circuit boards (B1)		995.6

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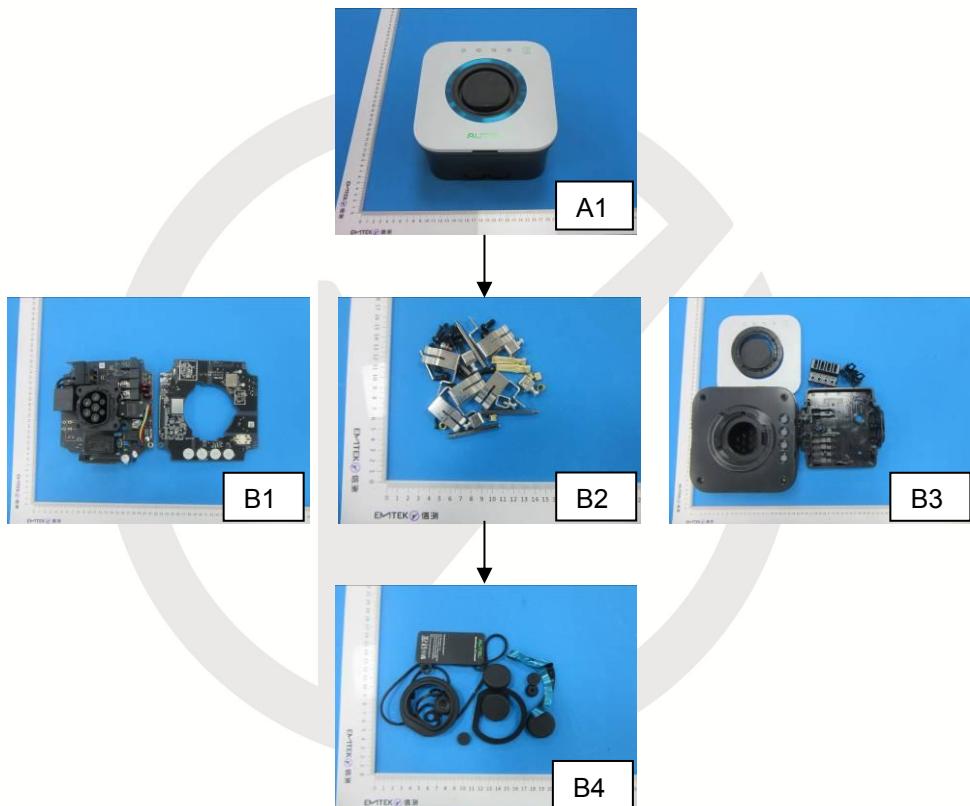
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Disassembly process

Step 1:



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Disassembly tools and times

Tool:	Picture:
Screwdriver	
Diagonal Pliers	
Utility knife	

Disassembly times: 15 Mins

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3. Estimation of reuse/recycling/recovery for product

Component/material	Weight(g)	Weight(%)	Recoverable		Recovery (%)
			Reuse/Recycling (%)	Energy recovery(%)	
PCB (B1)	995.6	42.38	12.37	13.5	25.87
Metal (B2)	217.1	9.24	9.24	/	9.24
Hard Plastic (B3)	1078.5	45.57	45.91	/	45.91
Other(B4)	56	2.38	/	2.38	2.38
Lost weight	2	0.09	/	/	/
Total	2349.2	100	67.52	15.88	83.40

4. Reuse/Recycling and Recovery Rate Calculation rules

Reuse/Recycling and Recovery Rate in the report are calculated as per the following formulas:

Reuse/Recycling Rate=Reuse/Recycling Weight(g)/Product Total Weight(g)

Recovery Rate=Reuse/Recycling Weight(g)+Energy recovery Weight(g)/ Product Total Weight(g)

Product Total Weight is including the main product and accessories, excluding package.

5. Categories of EEE covered by this Directive during the transitional period as provided for in Article 2(1)(b)

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6. Disposal and Recovery stated in DIRECTIVE 2008/98/EC Annex I & Annex II

DISPOSAL OPERATIONS

- D 1 Deposit into or on to land (e.g. landfill, etc.)
- D 2 Land treatment (e.g. biodegradation of liquid or sludgy discards in soils, etc.)
- D 3 Deep injection (e.g. injection of pumpable discards into wells, salt domes or naturally occurring repositories, etc.)
- D 4 Surface impoundment (e.g. placement of liquid or sludgy discards into pits, ponds or lagoons, etc.)
- D 5 Specially engineered landfill (e.g. placement into lined discrete cells which are capped and isolated from one another and the environment, etc.)
- D 6 Release into a water body except seas/oceans
- D 7 Release to seas/oceans including sea-bed insertion
- D 8 Biological treatment not specified elsewhere in this Annex which results in final compounds or mixtures which are discarded by means of any of the operations numbered D 1 to D 12
- D 9 Physico-chemical treatment not specified elsewhere in this Annex which results in final compounds or mixtures which are discarded by means of any of the operations numbered D 1 to D 12 (e.g. evaporation, drying, calcination, etc.)
- D 10 Incineration on land
- D 11 Incineration at sea (*)
- D 12 Permanent storage (e.g. emplacement of containers in a mine, etc.)
- D 13 Blending or mixing prior to submission to any of the operations numbered D 1 to D 12
- D 14 Repackaging prior to submission to any of the operations numbered D 1 to D 13
- D 15 Storage pending any of the operations numbered D 1 to D 14 (excluding temporary storage, pending collection, on the site where the waste is produced)

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RECOVERY OPERATIONS

- 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 waste obtained from any of the operations numbered R 1 to R 10
- R 12 Exchange of waste for submission to any of the operations numbered R 1 to R 11
- R 13 Storage of waste pending any of the operations numbered R 1 to R 12 (excluding temporary storage, pending collection, on the site where the waste is produced)

**Declaration: Report ESZ2212190173C00101R was repealed and replaced by Report
ESZ2212190173C00101RM1.**

*** End of Report ***

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