



Test Report

Report No. ESTC-240326007(R1)
Date: 31 Jul 2025
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APPLICANT : **RENOGY New Energy Co., Ltd.**
Taicang Economic Development Zone, Jiangsu Province, China

DATE OF SUBMISSION : 26 Mar 2024& 12 May 2025

TEST PERIOD : 26 Mar 2024 to 17 May 2024
12 May 2025 to 21 May 2025

SAMPLE DESCRIPTION : REGO12V 3kW Pure Sine Wave Inverter Charger

Model No. : RIV1230RCH-23S

Factory: Enerblok Co., Ltd
98 Huicheng Road, Changan Street, Huishan District, Wuxi City,
Jiangsu Province, China

Manufacturer: RENOGY New Energy Co., Ltd.
Taicang Economic Development Zone, Jiangsu Province, China

Trade name: /

SUMMARY OF TEST RESULTS

TEST REQUESTED	CONCLUSION	REMARK
European Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS)	PASS	-
Phthalates Content – European Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its Amendments up to EU No. 2015/ 863 Annex II	PASS	-

EST TECHNOLOGY CO., LTD.

Spark Zhang
Manager, Chemical Department



RT/ZH

REMARK

If there are questions or concerns on this report, please contact the following persons:

Report Enquiry: (86-769) 83081888 Ext. 618 E-mail: gdest@gdest.cn

Business Contact: (86-769) 83081888

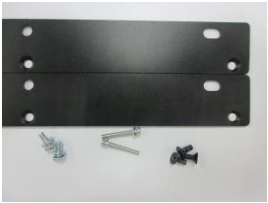
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1. Material List

Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
001		Black coating	Coating, base, inverter charger	-
002		Silvery metal	Base, inverter charger	-
003		Black plastic	Ring, base, inverter charger	-
004		Silvery metal	Terminal, base, inverter charger	-
005		Gray coating	Coating, cover, inverter charger	-
006		Silvery metal	Cover, inverter charger	-
007		White printed gray plastic	Label, cover, inverter charger	-
008		White plastic	Plate, button board	-
009		Translucent soft plastic	Button gasket, button board	-
010		Silvery metal	Button, button board	-
011		White plastic	LED	-
012		Black plastic	Button board	-
013		Gray foam with adhesive	Foam, button board	-
014		Brown plastic	Plate, FRC	-
015		Black plastic	FRC	-
016		Black coated silvery metal	Board	-
017		Silvery metal	Short screw	-
018		Silvery metal	Long screw	-
019		Black coated silvery metal	Screw, inverter charger	-
020		Black plastic	Ring, DC socket	-
021		Black soft plastic	Ring, DC socket	-

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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
022		Black plastic	Case, DC socket	-
023		Coppery metal	Pin, DC socket	-
024		Silvery solder	Solder, DC socket	-
025		Black soft plastic	Sleeve, DC socket	-
026		Green soft plastic	Insulation	-
027		Blue soft plastic	Insulation	-
028		Red soft plastic	Insulation	-
029		Silvery metal	Wire, insulation	-
030		Black soft plastic	Sleeve, insulation	-
031		White plastic	Connector	-
032		Red soft plastic	Insulation	-
033		Yellow soft plastic	Insulation	-
034		Black soft plastic	Insulation	-
035		Black soft plastic	Big sleeve	-
036		Black soft plastic	Small sleeve	-
037		Black plastic	Case, switching	-
038		White printed black plastic	Button, switching	-
039		Silvery metal	Head, switching	-
040		Black metal	Spring, switching	-
041		Silvery metal	Contact plate, switching	-
042		Silvery solder	Solder, switching	-

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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
043		Coppery metal	Case, antenna	-
044		White plastic	Holder, antenna	-
045		Coppery metal	Ring, antenna	-
046		Black soft plastic	Case, antenna	-
047		Black soft plastic	Sleeve, case	-
048		Coppery metal	Spring, antenna	-
049		Silvery metal	Screw, cover	-
050		Pewter metal	Screw, cover	-
051		Silvery metal	Terminal, cover	-
052		Black plastic	Nut, DC socket	-
053		Blue plastic	Cover, DC socket	-
054		Black plastic	Case, DC socket	-
055		Silvery metal	Pin, DC socket	-
056		Yellow/green soft plastic	Insulation	-
057		Black soft plastic	Insulation	-
058		Red soft plastic	Insulation	-
059		Black printed white soft plastic	Sleeve	-
060		Yellow soft plastic	Insulation	-
061		Red soft plastic	Insulation	-
062		Black soft plastic	Insulation	-
063		Black soft plastic	Sleeve	-

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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
064		Black plastic	Connector	-
065		Red soft plastic	Insulation	-
066		Yellow soft plastic	Insulation	-
067		Blue soft plastic	Insulation	-
068		Gray soft plastic	Insulation	-
069		Black soft plastic	Insulation	-
070		White soft plastic	Insulation	-
071		Green soft plastic	Insulation	-
072		Orange soft plastic	Insulation	-
073		Brown soft plastic	Insulation	-
074		Black soft plastic	Sleeve	-
075		Black plastic	Fan blades, fan motor	-
076		Silvery metal	Case, fan motor	-
077		Black soft plastic	Soft magnet, fan motor	-
078		Silvery metal	Shaft, fan motor	-
079		Silvery metal	Wheel, fan motor	-
080		Black coated silvery metal	Circilp, fan motor	-
081		Black printed white plastic	Label, fan motor	-
082		Black plastic	Frame, fan motor	-
083		White plastic	Frame, fan motor	-
084		Silvery metal	Plate, fan motor	-

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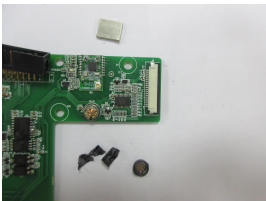


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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
085		Copper metal	Coil, fan motor	-
086		Copper metal	Nut, fan motor	-
087		Silvery metal	Shaft, fan motor	-
088		Silvery solder	Solder, PCB, fan motor	-
089		White coated nature printed green plastic	PCB, fan motor	-
090		Brown soft plastic	Insulation	-
091		White soft plastic	Insulation	-
092		Red soft plastic	Insulation	-
093		Black soft plastic	Insulation	-
094		Black soft plastic	Sleeve	-
095		Black plastic	Insulation	-
096		Copper metal	Terminal, insulation	-
097		Black plastic	Holder, insulation	-
098		Silvery metal	Cover, PCB	-
099		Black body	SMD IC	-
100		Silvery body	SMD crystal	-
101		Brown body	SMD capacitor	-
102		Transparent body	SMD LED	-
103		White/black body	SMD resistor	-
104		Gray body	SMD inductance	-
105		White plastic	Holder, inductance	-

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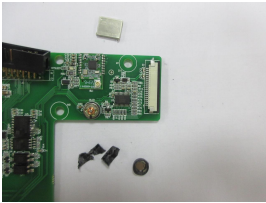
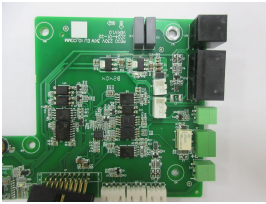


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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
106		Black body	SMD inductance	-
107		Rice white plastic	Connector	-
108		Black plastic	Holder, connector	-
109		Silvery metal	Pin, connector	-
110		Black body	SMD diode	-
111		Black body	SMD transistor	-
112		Black plastic	Case, buzzer	-
113		Silvery metal	Core, buzzer	-
114		Coppery metal	Coil, buzzer	-
115		Black metal	Magnet ring, buzzer	-
116		Silvery solder	Solder, PCB, buzzer	-
117		Green plastic	PCB, buzzer	-
118		Black body	SMD IC	-
119		Silvery metal	Pin, SMD IC	-
120		Translucent glue	Glue, SMD IC	-
121		Black plastic	Connector	-
122		Gray plastic	Capacitor sleeve	-
123		Silvery plastic	Filler, capacitor	-
124		Silvery metal	Pin, capacitor	-
125		Black body	SMD U10	-
126		Black body	SMD Z1	-

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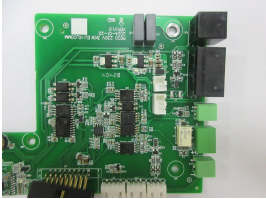
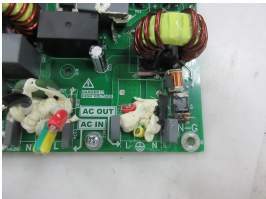


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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
127		Black plastic	Case, network	-
128		Copper metal	Pin, network	-
129		Green plastic	Connector	-
130		Silvery metal	Pin, connector	-
131		Rice white plastic	Case, K1	-
132		Rice white plastic	Holder, K1	-
133		Gray body	SMD inductance	-
134		White body	SMD capacitor	-
135		Silvery solder	Solder, PCB	-
136		White coated nature printed green plastic	PCB	-
137		Black plastic	Case, relay	-
138		White plastic	Holder, relay	-
139		Silvery metal	Core, relay	-
140		Copper metal	Coil, relay	-
141		Copper metal	Contact point, relay	-
142		Copper metal	Contact plate, relay	-
143		White glue	Glue, PCB	-
144		Yellow plastic with adhesive	Adhesive tape, inductance	-
145		Black core	Core, inductance	-
146		Red metal	Coil, inductance	-
147		Black glue	Glue, inductance	-

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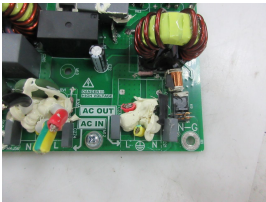


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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
148		Transparent plastic	Sleeve	-
149		Pink body	Resistor	-
150		White printed black plastic	Electrolytic capacitor sleeve	-
151		Silvery metal	Electrolytic capacitor shell	-
152		Black soft plastic	Rubber seal	-
153		Silvery metal	Aluminum foil	-
154		Brown paper	Electrolytic paper	-
155		Silvery metal	Horn, electrolytic capacitor	-
156		Green body	NCT1	-
157		Yellow printed black plastic	Electrolytic capacitor sleeve	-
158		Black body	NTC	-
159		Dark red plastic	Capacitor	-
160		Blue body	SMD capacitor	-
161		Green core	Core, inductance	-
162		Coppery metal	Coil, inductance	-
163		Silvery metal	Terminal, f6	-
164		White/glass ceramic	F6	-
165		Silvery metal	Heat sink	-
166		Silvery metal	Screw, heat sink	-
167		Black body	Transistor	-
168		Silvery metal	Pin, transistor	-

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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
169		Cyan metal	Screw, contact plate	-
170		Silvery metal	Contact pate	-
171		Silvery metal	Screw, contact plate, PCB	-
172		White printed black plastic	Case, inductance	-
173		Black metal	Magnet, inductance	-
174		Silvery metal	Handle, inductance	-
175		Yellow plastic with adhesive	Adhesive tape, transformer	-
176		Black plastic	Frame, transformer	-
177		Transparent plastic	Insulation	-
178		Gray core	Core, transformer	-
179		Coppery metal	Coil, transformer	-
180		Black soft plastic	Inductance sleeve	-
181		Gray core	Core, inductance	-
182		Coppery metal	Coil, inductance	-
183		Black body	SMD U2	-
184		Black body	SMD U14	-
185		Silvery metal	Pin, SMD U2	-
186		Black plastic	Connector	-
187		White soft plastic	Sleeve	-
188		Black plastic	Insulation	-
189		White plastic	Connector	-

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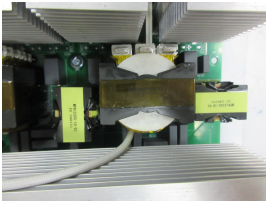


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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
190		White plastic	Frame, inductance	-
191		Silvery core	Core, inductance	-
192		Coppery metal	Coil, inductance	-
193		Blue plastic	Case, HCT3	-
194		Red metal	Coil, HCT3	-
195		Silvery solder	Solder, PCB, HCT3	-
196		Green plastic	PCB, HCT3	-
197		Black plastic	Capacitor sleeve	-
198		Red coated silvery metal	Electrolytic capacitor shell	-
199		Black plastic	Gasket, electrolytic capacitor	-
200		Yellow plastic with adhesive	Adhesive tape, inductance	-
201		Black plastic	Frame, inductance	-
202		Gray core	Core, inductance	-
203		Coppery metal	Coil, inductance	-
204		Silvery metal	Pin, inductance	-
205		Black body	SMD diode	-
206		Black plastic	Connector	-
207		Coppery yellow plastic with adhesive	Adhesive tape, transformer	-
208		Gray core	Core, transformer	-
209		Coppery metal	Coil, transformer	-
210		White plastic	Frame, transformer	-

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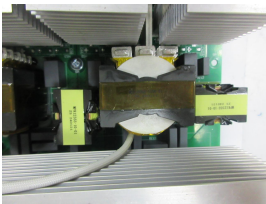
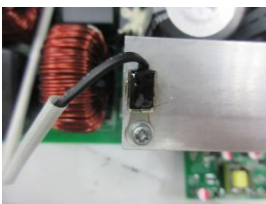
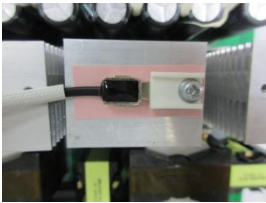
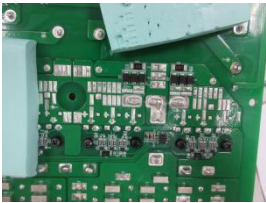


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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
211		Yellow plastic	Insulation	-
212		Brown plastic	Board, transformer	-
213		Silvery metal	Shaft, transformer	-
214		Silvery metal	Heat sink	-
215		Black body	Transistor, heat sink	-
216		White ceramic	Ceramic board, heat sink	-
217		Black coated silvery metal	Screw, heat sink	-
218		White plastic with adhesive	Adhesive tape, heat sink	-
219		Silvery metal	Screw, heat sink	-
220		Black plastic	Filler, heat sink	-
221		Silvery metal	Terminal, heat sink	-
222		Black soft plastic	Sleeve	-
223		Black soft plastic	Insulation	-
224		White soft plastic	Sleeve	-
225		White ceramic	Ceramic board	-
226		Pink soft plastic	Plate, heat sink	-
227		Silvery metal	Screw, heat sink	-
228		Green soft plastic	Cushion, PCB	-
229		Black body	SMD diode	-
230		Orange/black body	SMD fuse	-
231		Black coated silvery metal	Screw, PCB	-

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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
232		Gray body	SMD inductance	-
233		Beige body	SMD capacitor	-
234		Deep gray body	SMD inductance	-
235		White/black body	SMD resistor	-
236		Black body	SMD transistor	-
237		Coppery plastic	Plate, terminal, PCB	-
238		Silvery metal	Terminal, PCB	-
239		Silvery solder	Solder, PCB	-
240		White coated nature printed green plastic	PCB	-
241		Blue printed black plastic	Case, remote control	-
242		Black plastic	Ring, remote control	-
243		Black plastic	Base, remote control	-
244		Blue plastic	Case, DC socket	-
245		Coppery metal	Contact plate, DC socket	-
246		Silvery solder	Solder, DC socket	-
247		Black plastic	Ring, DC socket	-
248		Black plastic	Case, DC socket	-
249		Black plastic	Button, DC socket	-
250		Transparent plastic	Holder, button, DC socket	-
251		Black coated silvery metal	Screw, remote control	-
252		Silvery metal	Screw, remote control	-

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253		Black plastic	Case, network	-
254		Silvery metal	Pin, network	-
255		Black soft plastic	Insulation	-
256		Silvery metal	Wire, insulation	-
257		White/black body	SMD resistor	-
258		Brown body	SMD capacitor	-
259		Silvery solder	Solder, PCB	-
260		White coated nature printed green plastic	PCB	-
261		Red plastic	LED	-
262		Green plastic	LED	-
263		Translucent plastic	Holder, LED	-
264		Silvery metal	Pin, LED	-
265		Transparent plastic	Case, network plug	-
266		Black plastic	Case, network plug	-
267		Silvery metal	Pin, network plug	-
268		Black soft plastic	Cable jacket	-
269		Brown plastic	Insulation	-
270		White plastic	Insulation	-
271		Blue plastic	Insulation	-
272		Orange plastic	Insulation	-
273		Coppery metal	Wire, insulation	-

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274		Silvery metal	DC plug	-
275		Black soft plastic	Sleeve	-
276		Yellow plastic	Filler, DC plug	-
277		Black soft plastic	Cable jacket	-
278		Red soft plastic	Insulation	-
279		Black soft plastic	Insulation	-
280		Coppery metal	Wire, insulation	-
281		Red plastic	Terminal, insulation	-
282		Black plastic	Terminal, insulation	-
283		Green plastic	Connector	-
284		Silvery metal	Terminal, connector	-
285		Silvery metal	Contact plate	-
286		Black plastic	Terminal, contact plate	-
287		Red plastic	Terminal, contact plate	-
288		Green plastic	Connector	-
289		Silvery metal	Terminal, connector	-
290		Silvery metal	Screw	-
291		Silvery metal	Net, fan motor	-

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Test Item(s)	Sample Photo	Item / Component Description(s)	Location(s)	Style(s)
292		Green plastic	Connector	-
293		Silvery metal	Contact plate, connector	-
294		Silvery metal	Pin, connector	-
295		Orange plastic	Button, connector	-

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2. Test Result

2.1: XRF Screening test results

Test Method: Cadmium, Lead, Mercury, Chromium, Bromine

-With reference to IEC 62321-3-1: 2013 -XRF Screening Procedure

Instrument: Energy dispersive X-ray fluorescence spectrometer

Material No.	ppm[mg/kg]				
	Pb	Cd	Hg	Cr	Br
	Limit (mg/kg)				
	1000	100	1000	Cr VI:1000	PBB: 1000 PBDE: 1000
001	ND	ND	ND	ND	ND
002	ND	ND	ND	ND	NA
003	ND	ND	ND	ND	ND
004	ND	ND	ND	D(*3)	NA
005	ND	ND	ND	ND	ND
006	ND	ND	ND	ND	NA
007	ND	ND	ND	ND	ND
008	ND	ND	ND	ND	ND
009	ND	ND	ND	ND	ND
010	ND	ND	ND	D(*3)	NA
011	ND	ND	ND	ND	ND
012	ND	ND	ND	ND	ND
013	ND	ND	ND	ND	ND
014	ND	ND	ND	ND	ND
015	ND	ND	ND	ND	ND
016	ND	ND	ND	ND	NA
017	ND	ND	ND	ND	NA
018	ND	ND	ND	D(*3)	NA
019	ND	ND	ND	D(*3)	NA
020	ND	ND	ND	ND	ND
021	ND	ND	ND	ND	ND
022	ND	ND	ND	ND	ND
023	ND	ND	ND	ND	NA
024	ND	ND	ND	ND	NA
025	ND	ND	ND	ND	ND
026	ND	ND	ND	ND	ND
027	ND	ND	ND	ND	ND
028	ND	ND	ND	ND	ND
029	ND	ND	ND	ND	NA
030	ND	ND	ND	ND	ND
031	ND	ND	ND	ND	ND
032	ND	ND	ND	ND	ND
033	ND	ND	ND	ND	ND
034	ND	ND	ND	ND	ND
035	ND	ND	ND	ND	ND
036	ND	ND	ND	ND	ND

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037	ND	ND	ND	ND	D(*1)
038	ND	ND	ND	ND	D(*1)
039	ND	ND	ND	ND	NA
040	ND	ND	ND	ND	NA
041	ND	ND	ND	ND	NA
042	ND	ND	ND	ND	NA
043	ND	ND	ND	ND	NA
044	ND	ND	ND	ND	ND
045	ND	ND	ND	ND	NA
046	ND	ND	ND	ND	ND
047	ND	ND	ND	ND	ND
048	ND	ND	ND	ND	NA
049	ND	ND	ND	ND	NA
050	ND	ND	ND	ND	NA
051	ND	ND	ND	ND	NA
052	ND	ND	ND	ND	D(*1)
053	ND	ND	ND	ND	ND
054	ND	ND	ND	ND	D(*1)
055	ND	ND	ND	ND	NA
056	ND	ND	ND	ND	ND
057	ND	ND	ND	ND	ND
058	ND	ND	ND	ND	ND
059	ND	ND	ND	ND	ND
060	ND	ND	ND	ND	ND
061	ND	ND	ND	ND	ND
062	ND	ND	ND	ND	ND
063	ND	ND	ND	ND	ND
064	ND	ND	ND	ND	D(*1)
065	ND	ND	ND	ND	ND
066	ND	ND	ND	ND	ND
067	ND	ND	ND	ND	ND
068	ND	ND	ND	ND	ND
069	ND	ND	ND	ND	ND
070	ND	ND	ND	ND	ND
071	ND	ND	ND	ND	ND
072	ND	ND	ND	ND	ND
073	ND	ND	ND	ND	ND
074	ND	ND	ND	ND	ND
075	ND	ND	ND	ND	D(*1)
076	ND	ND	ND	D(*3)	NA
077	ND	ND	ND	ND	ND
078	ND	ND	ND	D(*3)	NA
079	ND	ND	ND	D(*3)	NA
080	ND	ND	ND	ND	NA
081	ND	ND	ND	ND	ND
082	ND	ND	ND	ND	D(*1)

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083	ND	ND	ND	ND	D(*1)
084	ND	ND	ND	ND	NA
085	ND	ND	ND	ND	NA
086	D(*2)	ND	ND	ND	NA
087	ND	ND	ND	D(*3)	NA
088	ND	ND	ND	ND	NA
089	ND	ND	ND	ND	D(*1)
090	ND	ND	ND	ND	ND
091	ND	ND	ND	ND	ND
092	ND	ND	ND	ND	ND
093	ND	ND	ND	ND	ND
094	ND	ND	ND	ND	ND
095	ND	ND	ND	ND	ND
096	ND	ND	ND	ND	NA
097	ND	ND	ND	ND	ND
098	ND	ND	ND	ND	NA
099	ND	ND	ND	ND	NA
100	ND	ND	ND	ND	NA
101	ND	ND	ND	ND	NA
102	ND	ND	ND	ND	NA
103	ND	ND	ND	ND	NA
104	ND	ND	ND	ND	NA
105	ND	ND	ND	ND	ND
106	ND	ND	ND	ND	NA
107	ND	ND	ND	ND	D(*1)
108	ND	ND	ND	ND	D(*1)
109	ND	ND	ND	ND	NA
110	ND	ND	ND	ND	NA
111	ND	ND	ND	ND	NA
112	ND	ND	ND	ND	D(*1)
113	ND	ND	ND	ND	NA
114	ND	ND	ND	ND	NA
115	ND	ND	ND	ND	NA
116	ND	ND	ND	ND	NA
117	ND	ND	ND	ND	ND
118	ND	ND	ND	ND	NA
119	ND	ND	ND	ND	NA
120	ND	ND	ND	ND	ND
121	ND	ND	ND	ND	D(*1)
122	ND	ND	ND	ND	D(*1)
123	ND	ND	ND	ND	ND
124	ND	ND	ND	ND	NA
125	ND	ND	ND	ND	NA
126	D(*2)	ND	ND	ND	NA
127	ND	ND	ND	ND	D(*1)
128	ND	ND	ND	ND	NA

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129	ND	ND	ND	ND	ND
130	ND	ND	ND	ND	NA
131	ND	ND	ND	ND	ND
132	ND	ND	ND	ND	ND
133	ND	ND	ND	ND	NA
134	ND	ND	ND	ND	NA
135	ND	ND	ND	ND	NA
136	ND	ND	ND	ND	D(*1)
137	ND	ND	ND	ND	ND
138	ND	ND	ND	ND	D(*1)
139	ND	ND	ND	ND	NA
140	ND	ND	ND	ND	NA
141	ND	ND	ND	ND	NA
142	ND	ND	ND	ND	NA
143	ND	ND	ND	ND	ND
144	ND	ND	ND	ND	ND
145	ND	ND	ND	ND	NA
146	ND	ND	ND	ND	NA
147	ND	ND	ND	ND	ND
148	ND	ND	ND	ND	ND
149	ND	ND	ND	ND	NA
150	ND	ND	ND	ND	ND
151	ND	ND	ND	ND	NA
152	ND	ND	ND	ND	ND
153	ND	ND	ND	ND	NA
154	ND	ND	ND	ND	NA
155	ND	ND	ND	ND	NA
156	ND	ND	ND	ND	NA
157	ND	ND	ND	ND	ND
158	ND	ND	ND	ND	NA
159	ND	ND	ND	ND	ND
160	ND	ND	ND	ND	NA
161	ND	ND	ND	ND	NA
162	ND	ND	ND	ND	NA
163	ND	ND	ND	ND	NA
164	ND	ND	ND	ND	NA
165	ND	ND	ND	ND	NA
166	ND	ND	ND	D(*3)	NA
167	D(*2)	ND	ND	ND	NA
168	ND	ND	ND	ND	NA
169	ND	ND	ND	D(*3)	NA
170	ND	ND	ND	ND	NA
171	ND	ND	ND	ND	NA
172	ND	ND	ND	ND	ND
173	ND	ND	ND	ND	NA
174	ND	ND	ND	ND	NA

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175	ND	ND	ND	ND	ND
176	ND	ND	ND	ND	ND
177	ND	ND	ND	ND	ND
178	ND	ND	ND	ND	NA
179	ND	ND	ND	ND	NA
180	ND	ND	ND	ND	ND
181	ND	ND	ND	ND	NA
182	ND	ND	ND	ND	NA
183	ND	ND	ND	ND	NA
184	ND	ND	ND	ND	NA
185	ND	ND	ND	ND	NA
186	ND	ND	ND	ND	D(*1)
187	ND	ND	ND	ND	ND
188	ND	ND	ND	ND	ND
189	ND	ND	ND	ND	ND
190	ND	ND	ND	ND	D(*1)
191	ND	ND	ND	ND	NA
192	ND	ND	ND	ND	NA
193	ND	ND	ND	ND	ND
194	ND	ND	ND	ND	NA
195	ND	ND	ND	ND	NA
196	ND	ND	ND	ND	D(*1)
197	ND	ND	ND	ND	D(*1)
198	ND	ND	ND	ND	NA
199	ND	ND	ND	ND	ND
200	ND	ND	ND	ND	ND
201	ND	ND	ND	ND	ND
202	ND	ND	ND	ND	NA
203	ND	ND	ND	ND	NA
204	ND	ND	ND	ND	NA
205	D(*2)	ND	ND	ND	NA
206	ND	ND	ND	ND	D(*1)
207	ND	ND	ND	ND	ND
208	ND	ND	ND	ND	NA
209	ND	ND	ND	ND	NA
210	ND	ND	ND	ND	ND
211	ND	ND	ND	ND	ND
212	ND	ND	ND	ND	ND
213	ND	ND	ND	ND	NA
214	ND	ND	ND	ND	NA
215	D(*2)	ND	ND	ND	NA
216	ND	ND	ND	ND	NA
217	ND	ND	ND	ND	NA
218	ND	ND	ND	ND	ND
219	ND	ND	ND	ND	NA
220	ND	ND	ND	ND	ND

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221	ND	ND	ND	ND	NA
222	ND	ND	ND	ND	ND
223	ND	ND	ND	ND	ND
224	ND	ND	ND	ND	ND
225	ND	ND	ND	ND	NA
226	ND	ND	ND	ND	ND
227	ND	ND	ND	ND	NA
228	ND	ND	ND	ND	ND
229	D(*2)	ND	ND	ND	NA
230	ND	ND	ND	ND	NA
231	ND	ND	ND	ND	NA
232	ND	ND	ND	ND	NA
233	ND	ND	ND	ND	NA
234	ND	ND	ND	ND	NA
235	ND	ND	ND	ND	NA
236	ND	ND	ND	ND	NA
237	ND	ND	ND	ND	ND
238	ND	ND	ND	ND	NA
239	ND	ND	ND	ND	NA
240	ND	ND	ND	ND	D(*1)
241	ND	ND	ND	ND	D(*1)
242	ND	ND	ND	ND	ND
243	ND	ND	ND	ND	ND
244	ND	ND	ND	ND	ND
245	ND	ND	ND	ND	NA
246	ND	ND	ND	ND	NA
247	ND	ND	ND	ND	ND
248	ND	ND	ND	ND	ND
249	ND	ND	ND	ND	ND
250	ND	ND	ND	ND	ND
251	ND	ND	ND	D(*3)	NA
252	ND	ND	ND	ND	NA
253	ND	ND	ND	ND	D(*1)
254	ND	ND	ND	ND	NA
255	ND	ND	ND	ND	ND
256	ND	ND	ND	ND	NA
257	ND	ND	ND	ND	NA
258	ND	ND	ND	ND	NA
259	ND	ND	ND	ND	NA
260	ND	ND	ND	ND	D(*1)
261	ND	ND	ND	ND	ND
262	ND	ND	ND	ND	D(*1)
263	ND	ND	ND	ND	ND
264	ND	ND	ND	ND	NA
265	ND	ND	ND	ND	ND
266	ND	ND	ND	ND	ND

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267	ND	ND	ND	ND	NA
268	ND	ND	ND	ND	ND
269	ND	ND	ND	ND	ND
270	ND	ND	ND	ND	ND
271	ND	ND	ND	ND	ND
272	ND	ND	ND	ND	ND
273	ND	ND	ND	ND	NA
274	ND	ND	ND	D(*3)	NA
275	ND	ND	ND	ND	ND
276	ND	ND	ND	ND	ND
277	ND	ND	ND	ND	ND
278	ND	ND	ND	ND	ND
279	ND	ND	ND	ND	ND
280	ND	ND	ND	ND	NA
281	ND	ND	ND	ND	D(*1)
282	ND	ND	ND	ND	D(*1)
283	ND	ND	ND	ND	D(*1)
284	D(*2)	ND	ND	ND	NA
285	ND	ND	ND	ND	NA
286	ND	ND	ND	ND	ND
287	ND	ND	ND	ND	ND
288	ND	ND	ND	ND	D(*1)
289	D(*2)	ND	ND	ND	NA
290	ND	ND	ND	D(*3)	NA
291	ND	ND	ND	D(*3)	NA
292	ND	ND	ND	ND	D(*1)
293	ND	ND	ND	D(*3)	NA
294	ND	ND	ND	ND	NA
295	ND	ND	ND	ND	ND

Remark:

-mg/kg is equal to ppm (parts per million)

(*1) The screening result was found in the inconclusive region, thus the further wet chemistry tests are suggested.

(*2) The screening result was found above the limit, thus the further wet chemistry tests are suggested.

(*3) The chromium screening result was found in the inconclusive region, thus the further wet chemistry tests are suggest



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Guidelines: XRF Screening limits for different matrices

Materials	Concentration (ppm)				
	Cd	Cr	Pb	Hg	Br
Metallic	$BL \leq 70 < X \leq 130 < OL$	$BL \leq 700 < OL$	$BL \leq 700 < X \leq 1300 < OL$	$BL \leq 700 < X \leq 1300 < OL$	NA
Polymeric	$BL \leq 70 < X \leq 130 < OL$	$BL \leq 700 < OL$	$BL \leq 700 < X \leq 1300 < OL$	$BL \leq 700 < X \leq 1300 < OL$	$BL \leq 200 < X$
Electronic Components	$DL < X \leq 150 < OL$	$BL \leq 500 < OL$	$BL \leq 700 < X \leq 1300 < OL$	$BL \leq 500 < X \leq 1500 < OL$	$BL \leq 200 < X$

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2.2: Confirmation Test Results

Test Methods: for total Lead, Cadmium, Mercury

-Ref. to IEC 62321-4: 2013+AMD1:2017 & IEC 62321-5: 2013, analysis was performed by ICP-AES or AAS.

For Hexavalent Chromium

-Ref. to IEC 62321-7-1: 2015, nalysis was performed by Spot-test and water-boiling procedure.(Metal)

-Ref. to IEC 62321-7-2: 2017, analysis was performed by UV/VIS(Polymeric and electronics).

-Ref. to International Standard ISO 17075-1: 2017(Leather and other materials).

For PBBs, PBDEs-Ref. to IEC 62321-6: 2015, analysis was performed by GC-MS.

	Pb	Cd	Hg	Cr(VI)	PBBs	PBDEs
Limit ppm (mg/kg)	1000	100	1000	1000	1000	1000

Material No.	ppm(mg/kg)					
	Pb	Cd	Hg	Cr(VI)	PBBs	PBDEs
004	-	-	-	Negative	-	-
010	-	-	-	Negative	-	-
018	-	-	-	Negative	-	-
019	-	-	-	Negative	-	-
037	-	-	-	-	ND	ND
038	-	-	-	-	ND	ND
052	-	-	-	-	ND	ND
054	-	-	-	-	ND	ND
064	-	-	-	-	ND	ND
075	-	-	-	-	ND	ND
076	-	-	-	Negative	-	-
078	-	-	-	Negative	-	-
079	-	-	-	Negative	-	-
082	-	-	-	-	ND	ND
083	-	-	-	-	ND	ND
086	31079(*1)	-	-	-	-	-
087	-	-	-	Negative	-	-
089	-	-	-	-	ND	ND
107	-	-	-	-	ND	ND
108	-	-	-	-	ND	ND
112	-	-	-	-	ND	ND
121	-	-	-	-	ND	ND
122	-	-	-	-	ND	ND
126	2700(*2)	-	-	-	-	-
127	-	-	-	-	ND	ND
136	-	-	-	-	ND	ND
138	-	-	-	-	ND	ND
166	-	-	-	Negative	-	-

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167	1900(*2)	-	-	-	-	-
169	-	-	-	Negative	-	-
186	-	-	-	-	ND	ND
190	-	-	-	-	ND	ND
196	-	-	-	-	ND	ND
197	-	-	-	-	ND	ND
205	1900(*2)	-	-	-	-	-
206	-	-	-	-	ND	ND
215	11000(*2)	-	-	-	-	-
229	3100(*2)	-	-	-	-	-
240	-	-	-	-	ND	ND
241	-	-	-	-	ND	ND
251	-	-	-	Negative	-	-
253	-	-	-	-	ND	ND
260	-	-	-	-	ND	ND
262	-	-	-	-	ND	ND
274	-	-	-	Negative	-	-
281	-	-	-	-	ND	ND
282	-	-	-	-	ND	ND
283	-	-	-	-	ND	ND
284	11000(*1)	-	-	-	-	-
288	-	-	-	-	ND	ND
289	13000(*1)	-	-	-	-	-
290	-	-	-	Negative	-	-
291	-	-	-	Negative	-	-
292	-	-	-	Negative	-	-
293	-	-	-	-	ND	ND

Remark:

(*1) According to Annex III of European Parliament and Council Directive 2011/65/EU, exemptions were granted a few materials and Clause 6(c) is reiterated here “Copper alloy containing up to 4 % lead by weight ”.

(*2) According to Annex III of European Parliament and Council Directive 2011/65/EU, exemptions were granted a few materials and Clause 7(a) is reiterated here “Lead in high melting temperature type solders (i.e. lead- based alloys containing 85 % by weight or more lead) ”.

Note / Key:

ND = Not Detected

“D” = detected

“BL” = below Limit

“X” = Inconclusive Range

“DL” = Detection Limit

“OL” = over Limit

NA = Not Applicable

10000 mg/kg = 1 %

mg/kg = milligram(s) per kilogram = ppm = part(s) per million

Detection Limit : See Appendix.



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2.3: Detection Limit

List of Analytes Detection Limit and Maximum Allowable Limit [Compliance Test for European Council Directive 2011/65/EU] :						
No.	Name of Analytes	Detection Limit (mg/kg)				Maximum Allowable Limit (mg/kg)
		X-ray fluorescence (XRF) ^[a]			Wet Chemistry	
		Plastic	Metallic / glass / ceramic	Others		
1	Lead (Pb)	100	200	200	10	1000
2	Cadmium (Cd)	50	50	50	10	100
3	Mercury (Hg)	100	200	200	10	1000
4	Chromium (Cr)	100	200	200	NA	NA
5	Chromium VI (Cr VI)	NA	NA	NA	10 /Sec ^[a, b]	1000 / Negative ^[b]
6	Bromine (Br)	200	NA	200	NA	NA
7	Polybromobiphenyls (PBBs) - Bromobiphenyl (MonoBB) - Dibromobiphenyl (DiBB) - Tribromobiphenyl (TriBB) - Tetrabromobiphenyl (TetraBB) - Pentabromobiphenyl (PentaBB) - Hexabromobiphenyl (HexaBB) - Heptabromobiphenyl (HeptaBB) - Octabromobiphenyl (OctaBB) - Nonabromobiphenyl (NonaBB) - Decabromobiphenyl (DecaBB)	NA	NA	NA	Each 50	Sum 1000
8	Polybromodiphenyl ethers (PBDEs) - Bromodiphenyl ether (MonoBDE) - Dibromodiphenyl ether (DiBDE) - Tribromodiphenyl ether (TriBDE) - Tetrabromodiphenyl ether (TetraBDE) - Pentabromodiphenyl ether (PentaBDE) - Hexabromodiphenyl ether (HexaBDE) - Heptabromodiphenyl ether (HeptaBDE) - Octabromodiphenyl ether (OctaBDE) - Nonabromodiphenyl ether (NonaBDE) - Decabromodiphenyl ether (DecaBDE)	NA	NA	NA	Each 50	Sum 1000
[a]	The principle of this method was evaluated and supported by two studies organized by IEC TC 111 WG3. These studies were focused on detecting the presence of Cr VI in the corrosion protection coatings on metallic samples.					
[b]	Result(s) of Cr VI for metallic material(s) was (were) expressed in term of positive and negative. Negative means the absence of Cr VI on the tested areas and the result(s) was (were) regarded as in compliance with European Parliament and Council Directive 2011/65/EU, Article 4(1). While, positive means the presence of Cr VI on tested areas and the result(s) was (were) regarded as in conflict with European Parliament and Council Directive 2011/65/EU, Article 4(1).					

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BBP/DBP/DEHP/DIBP Content – European Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its Amendments up to EU No. 2015/ 863 Annex II

Test Methods:

With reference to International Standard IEC 62321-8:2017, Sample was extracted with organic solvent and then analyzed by Gas Chromatograph Mass Spectrometer.

Test Item(s)	Item / Component Description(s)	Location(s)	Style(s)
001	Black coating	Coating, base, inverter charger	-
003	Black plastic	Ring, base, inverter charger	-
005	Gray coating	Coating, cover, inverter charger	-
007	White printed gray plastic	Label, cover, inverter charger	-
008	White plastic	Plate, button board	-
009	Translucent soft plastic	Button gasket, button board	-
011	White plastic	LED	-
012	Black plastic	Button board	-
013	Gray foam with adhesive	Foam, button board	-
014	Brown plastic	Plate, FRC	-
015	Black plastic	FRC	-
020	Black plastic	Ring, DC socket	-
021	Black soft plastic	Ring, DC socket	-
022	Black plastic	Case, DC socket	-
025	Black soft plastic	Sleeve, DC socket	-
026	Green soft plastic	Insulation	-
027	Blue soft plastic	Insulation	-
028	Red soft plastic	Insulation	-
030	Black soft plastic	Sleeve, insulation	-
031	White plastic	Connector	-
032	Red soft plastic	Insulation	-
033	Yellow soft plastic	Insulation	-

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034	Black soft plastic	Insulation	-
035	Black soft plastic	Big sleeve	-
036	Black soft plastic	Small sleeve	-
037	Black plastic	Case, switching	-
038	White printed black plastic	Button, switching	-
044	White plastic	Holder, antenna	-
046	Black soft plastic	Case, antenna	-
047	Black soft plastic	Sleeve, case	-
052	Black plastic	Nut, DC socket	-
053	Blue plastic	Cover, DC socket	-
054	Black plastic	Case, DC socket	-
056	Yellow/green soft plastic	Insulation	-
057	Black soft plastic	Insulation	-
058	Red soft plastic	Insulation	-
059	Black printed white soft plastic	Sleeve	-
060	Yellow soft plastic	Insulation	-
061	Red soft plastic	Insulation	-
062	Black soft plastic	Insulation	-
063	Black soft plastic	Sleeve	-
064	Black plastic	Connector	-
065	Red soft plastic	Insulation	-
066	Yellow soft plastic	Insulation	-
067	Blue soft plastic	Insulation	-
068	Gray soft plastic	Insulation	-
069	Black soft plastic	Insulation	-
070	White soft plastic	Insulation	-
071	Green soft plastic	Insulation	-
072	Orange soft plastic	Insulation	-
073	Brown soft plastic	Insulation	-

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074	Black soft plastic	Sleeve	-
075	Black plastic	Fan blades, fan motor	-
077	Black soft plastic	Soft magnet, fan motor	-
081	Black printed white plastic	Label, fan motor	-
082	Black plastic	Frame, fan motor	-
083	White plastic	Frame, fan motor	-
089	White coated nature printed green plastic	PCB, fan motor	-
090	Brown soft plastic	Insulation	-
091	White soft plastic	Insulation	-
092	Red soft plastic	Insulation	-
093	Black soft plastic	Insulation	-
094	Black soft plastic	Sleeve	-
095	Black plastic	Insulation	-
097	Black plastic	Holder, insulation	-
105	White plastic	Holder, inductance	-
107	Rice white plastic	Connector	-
108	Black plastic	Holder, connector	-
112	Black plastic	Case, buzzer	-
117	Green plastic	PCB, buzzer	-
120	Translucent glue	Glue, SMD IC	-
121	Black plastic	Connector	-
122	Gray plastic	Capacitor sleeve	-
123	Silvery plastic	Filler, capacitor	-
127	Black plastic	Case, network	-
129	Green plastic	Connector	-
131	Rice white plastic	Case, K1	-
132	Rice white plastic	Holder, K1	-
136	White coated nature printed green plastic	PCB	-
137	Black plastic	Case, relay	-

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138	White plastic	Holder, relay	-
143	White glue	Glue, PCB	-
144	Yellow plastic with adhesive	Adhesive tape, inductance	-
147	Black glue	Glue, inductance	-
148	Transparent plastic	Sleeve	-
150	White printed black plastic	Electrolytic capacitor sleeve	-
152	Black soft plastic	Rubber seal	-
157	Yellow printed black plastic	Electrolytic capacitor sleeve	-
159	Dark red plastic	Capacitor	-
172	White printed black plastic	Case, inductance	-
175	Yellow plastic with adhesive	Adhesive tape, transformer	-
176	Black plastic	Frame, transformer	-
177	Transparent plastic	Insulation	-
180	Black soft plastic	Inductance sleeve	-
186	Black plastic	Connector	-
187	White soft plastic	Sleeve	-
188	Black plastic	Insulation	-
189	White plastic	Connector	-
190	White plastic	Frame, inductance	-
193	Blue plastic	Case, HCT3	-
196	Green plastic	PCB, HCT3	-
197	Black plastic	Capacitor sleeve	-
199	Black plastic	Gasket, electrolytic capacitor	-
200	Yellow plastic with adhesive	Adhesive tape, inductance	-
201	Black plastic	Frame, inductance	-
206	Black plastic	Connector	-
207	Copper yellow plastic with adhesive	Adhesive tape, transformer	-
210	White plastic	Frame, transformer	-
211	Yellow plastic	Insulation	-

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212	Brown plastic	Board, transformer	-
218	White plastic with adhesive	Adhesive tape, heat sink	-
220	Black plastic	Filler, heat sink	-
222	Black soft plastic	Sleeve	-
223	Black soft plastic	Insulation	-
224	White soft plastic	Sleeve	-
226	Pink soft plastic	Plate, heat sink	-
228	Green soft plastic	Cushion, PCB	-
237	Coppery plastic	Plate, terminal, PCB	-
240	White coated nature printed green plastic	PCB	-
241	Blue printed black plastic	Case, remote control	-
242	Black plastic	Ring, remote control	-
243	Black plastic	Base, remote control	-
244	Blue plastic	Case, DC socket	-
247	Black plastic	Ring, DC socket	-
248	Black plastic	Case, DC socket	-
249	Black plastic	Button, DC socket	-
250	Transparent plastic	Holder, button, DC socket	-
253	Black plastic	Case, network	-
255	Black soft plastic	Insulation	-
260	White coated nature printed green plastic	PCB	-
261	Red plastic	LED	-
262	Green plastic	LED	-
263	Translucent plastic	Holder, LED	-
265	Transparent plastic	Case, network plug	-
266	Black plastic	Case, network plug	-
268	Black soft plastic	Cable jacket	-
269	Brown plastic	Insulation	-
270	White plastic	Insulation	-

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271	Blue plastic	Insulation	-
272	Orange plastic	Insulation	-
275	Black soft plastic	Sleeve	-
276	Yellow plastic	Filler, DC plug	-
277	Black soft plastic	Cable jacket	-
278	Red soft plastic	Insulation	-
279	Black soft plastic	Insulation	-
281	Red plastic	Terminal, insulation	-
282	Black plastic	Terminal, insulation	-
283	Green plastic	Connector	-
286	Black plastic	Terminal, contact plate	-
287	Red plastic	Terminal, contact plate	-
288	Green plastic	Connector	-
292	Green plastic	Connector	-
295	Orange plastic	Button, connector	-

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Test Parameter:	BBP	DBP	DEHP	DiBP	-
Limit (%):	0.1	0.1	0.1	0.1	-
Test Item(s)	Result (%)				Conclusion
001	ND	ND	ND	ND	PASS
003	ND	ND	ND	ND	PASS
005	ND	ND	ND	ND	PASS
007	ND	ND	ND	ND	PASS
008+013+014+237	ND	ND	0.010	ND	PASS
009	ND	ND	ND	ND	PASS
011	ND	ND	ND	ND	PASS
012	ND	ND	ND	ND	PASS
015	ND	ND	ND	ND	PASS
020	ND	ND	ND	ND	PASS
021	ND	ND	ND	ND	PASS
022	ND	ND	ND	ND	PASS
025	ND	ND	ND	ND	PASS
026	ND	ND	ND	ND	PASS
027	ND	ND	ND	ND	PASS
028	ND	ND	ND	ND	PASS
030	ND	ND	ND	ND	PASS
031	ND	ND	ND	ND	PASS
032	ND	0.028	ND	0.014	PASS
033	ND	0.046	ND	0.012	PASS
034	ND	0.025	ND	0.011	PASS
035	ND	ND	ND	ND	PASS
036	ND	ND	ND	ND	PASS
037	ND	ND	ND	ND	PASS
038	ND	ND	ND	ND	PASS
044	ND	ND	ND	ND	PASS
046	ND	ND	ND	ND	PASS
047	ND	ND	ND	ND	PASS
052	ND	ND	ND	ND	PASS

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Test Parameter:	BBP	DBP	DEHP	DiBP	-
Limit (%):	0.1	0.1	0.1	0.1	-
Test Item(s)	Result (%)				Conclusion
053	ND	ND	ND	ND	PASS
054	ND	ND	ND	ND	PASS
056	ND	ND	ND	ND	PASS
057	ND	ND	ND	ND	PASS
058	ND	ND	ND	ND	PASS
059	ND	ND	ND	ND	PASS
060	ND	0.034	ND	ND	PASS
061	ND	0.048	ND	ND	PASS
062	ND	0.036	ND	ND	PASS
063	ND	ND	ND	ND	PASS
064	ND	ND	ND	ND	PASS
065	ND	ND	ND	ND	PASS
066	ND	ND	ND	ND	PASS
067	ND	ND	ND	ND	PASS
068	ND	ND	ND	ND	PASS
069	ND	ND	ND	ND	PASS
070	ND	ND	ND	ND	PASS
071	ND	ND	ND	ND	PASS
072	ND	ND	ND	ND	PASS
073	ND	ND	ND	ND	PASS
074	ND	ND	ND	ND	PASS
075	ND	ND	ND	ND	PASS
077	ND	ND	ND	ND	PASS
081	ND	ND	ND	ND	PASS
082	ND	ND	ND	ND	PASS
083	ND	ND	ND	ND	PASS
089	ND	ND	ND	ND	PASS
090	ND	ND	ND	ND	PASS
091	ND	ND	ND	ND	PASS
092	ND	ND	ND	ND	PASS

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Test Parameter:	BBP	DBP	DEHP	DiBP	-
Limit (%):	0.1	0.1	0.1	0.1	-
Test Item(s)	Result (%)				Conclusion
093	ND	ND	ND	ND	PASS
094	ND	ND	ND	ND	PASS
095	ND	ND	ND	ND	PASS
097	ND	ND	ND	ND	PASS
105	ND	ND	ND	ND	PASS
107	ND	ND	ND	ND	PASS
108	ND	ND	ND	ND	PASS
112	ND	ND	ND	ND	PASS
117	ND	ND	ND	ND	PASS
120	ND	ND	ND	ND	PASS
121	ND	ND	ND	ND	PASS
122	ND	ND	ND	ND	PASS
123	ND	ND	ND	ND	PASS
127	ND	ND	ND	ND	PASS
129	ND	ND	ND	ND	PASS
131	ND	ND	ND	ND	PASS
132	ND	ND	ND	ND	PASS
136	ND	ND	ND	ND	PASS
137	ND	ND	ND	ND	PASS
138	ND	ND	ND	ND	PASS
143	ND	ND	ND	ND	PASS
144	ND	ND	ND	ND	PASS
147	ND	ND	ND	ND	PASS
148	ND	ND	ND	ND	PASS
150	ND	ND	ND	ND	PASS
152	ND	ND	ND	ND	PASS
157	ND	ND	ND	ND	PASS
159	ND	ND	ND	ND	PASS
172	ND	ND	ND	ND	PASS
175	ND	ND	ND	ND	PASS

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Test Parameter:	BBP	DBP	DEHP	DiBP	-
Limit (%):	0.1	0.1	0.1	0.1	-
Test Item(s)	Result (%)				Conclusion
176	ND	ND	ND	ND	PASS
177	ND	ND	ND	ND	PASS
180	ND	ND	ND	ND	PASS
186	ND	ND	ND	ND	PASS
187	ND	ND	ND	ND	PASS
188	ND	ND	ND	ND	PASS
189	ND	ND	ND	ND	PASS
190	ND	ND	ND	ND	PASS
193	ND	ND	ND	ND	PASS
196	ND	ND	ND	ND	PASS
197	ND	ND	ND	ND	PASS
199	ND	ND	ND	ND	PASS
200	ND	ND	ND	ND	PASS
201	ND	ND	ND	ND	PASS
206	ND	ND	ND	ND	PASS
207	ND	ND	ND	ND	PASS
210	ND	ND	ND	ND	PASS
211	ND	ND	ND	ND	PASS
212	ND	ND	ND	ND	PASS
218	ND	ND	ND	ND	PASS
220	ND	ND	ND	ND	PASS
222	ND	ND	ND	ND	PASS
223	ND	ND	ND	ND	PASS
224	ND	ND	ND	ND	PASS
226	ND	ND	ND	ND	PASS
228	ND	ND	ND	ND	PASS
240	ND	ND	ND	ND	PASS
241	ND	ND	ND	ND	PASS
242	ND	ND	ND	ND	PASS
243	ND	ND	ND	ND	PASS

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Test Parameter:	BBP	DBP	DEHP	DiBP	-
Limit (%):	0.1	0.1	0.1	0.1	-
Test Item(s)	Result (%)				Conclusion
244	ND	ND	ND	ND	PASS
247	ND	ND	ND	ND	PASS
248	ND	ND	ND	ND	PASS
249	ND	ND	ND	ND	PASS
250	ND	ND	ND	ND	PASS
253	ND	ND	ND	ND	PASS
255	ND	ND	ND	ND	PASS
260	ND	ND	ND	ND	PASS
261	ND	ND	ND	ND	PASS
262	ND	ND	ND	ND	PASS
263	ND	ND	ND	ND	PASS
265	ND	ND	ND	ND	PASS
266	ND	ND	ND	ND	PASS
268	ND	ND	ND	ND	PASS
269	ND	ND	ND	ND	PASS
270	ND	ND	ND	ND	PASS
271	ND	ND	ND	ND	PASS
272	ND	ND	ND	ND	PASS
275	ND	ND	ND	ND	PASS
276	ND	ND	ND	ND	PASS
277	ND	ND	ND	ND	PASS
278	ND	ND	ND	ND	PASS
279	ND	ND	ND	ND	PASS
281	ND	ND	ND	ND	PASS
282	ND	ND	ND	ND	PASS
283	ND	ND	ND	ND	PASS
286	ND	ND	ND	ND	PASS
287	ND	ND	ND	ND	PASS
288	ND	ND	ND	ND	PASS
292	ND	ND	ND	ND	PASS

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Test Parameter:	BBP	DBP	DEHP	DiBP	-
Limit (%):	0.1	0.1	0.1	0.1	-
Test Item(s)	Result (%)				Conclusion
295	ND	ND	ND	ND	PASS

Note / key:

BBP = Butyl benzyl phthalate (CAS No: 85-68-7)

DEHP = Di(2-ethylhexyl) phthalate (CAS No: 117-81-7)

ND = Not detected

mg/kg = milligram(s) per kilogram

Detection Limit (%) : Each 0.005

DBP = Dibutyl phthalate (CAS No: 84-74-2)

DiBP = Diisobutyl phthalate (CAS No: 84-69-5)

% = percent

10000 mg/kg = 1 %

Remark:

The item(s) I043, I056, I086, I239 were provided by client dated on Apr 30, 2024 and May 15, 2024.

- At the request of client, test(s) was conducted on the certain component(s) of the submitted samples(s) / submitted component(s).

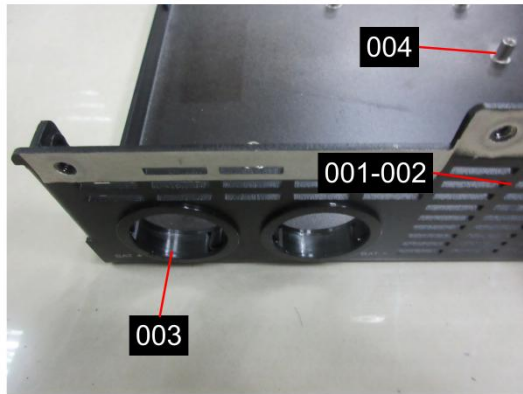
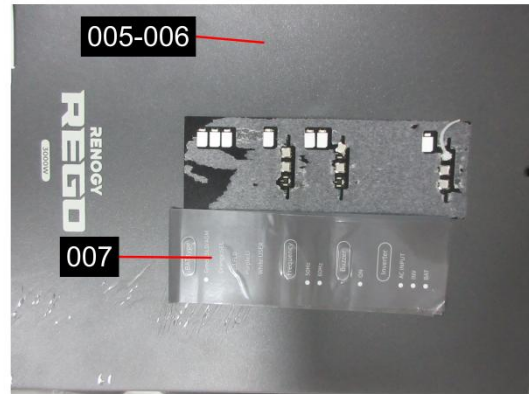
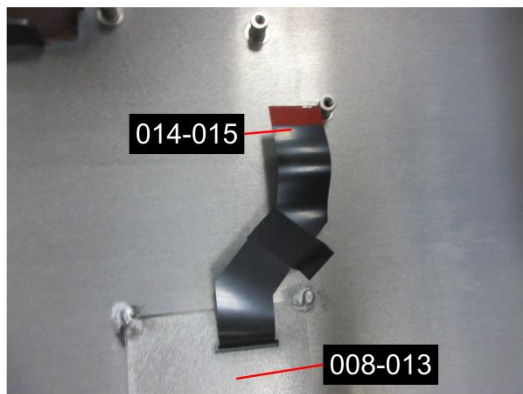
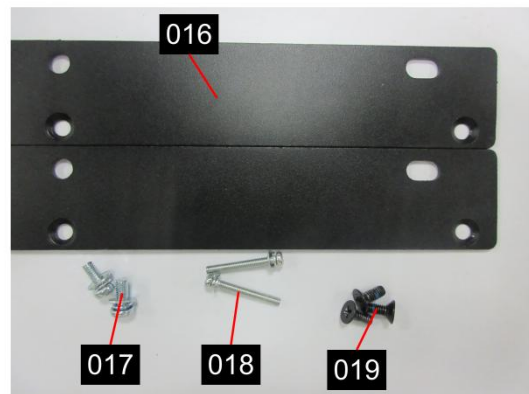
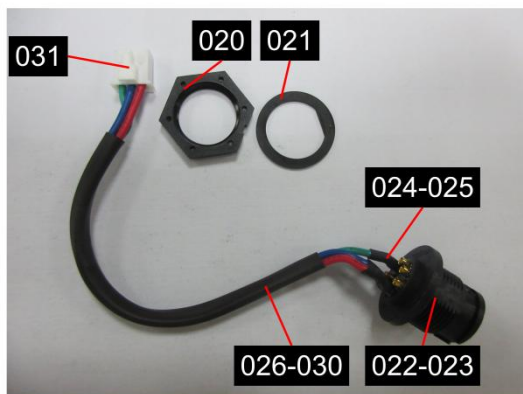
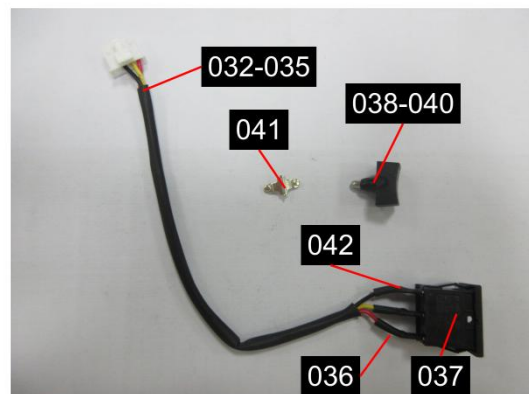


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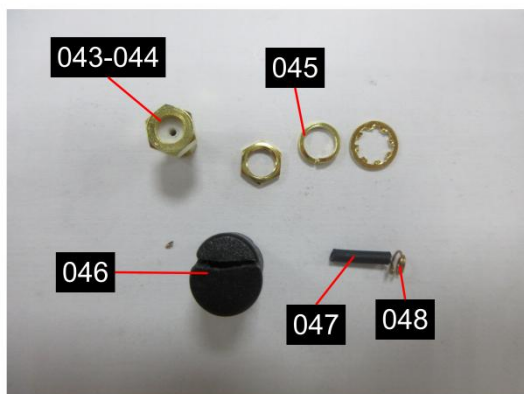
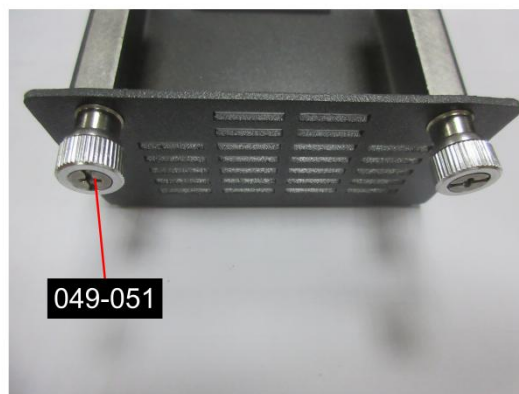
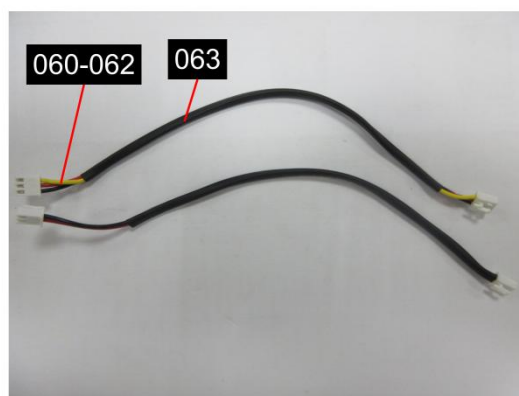
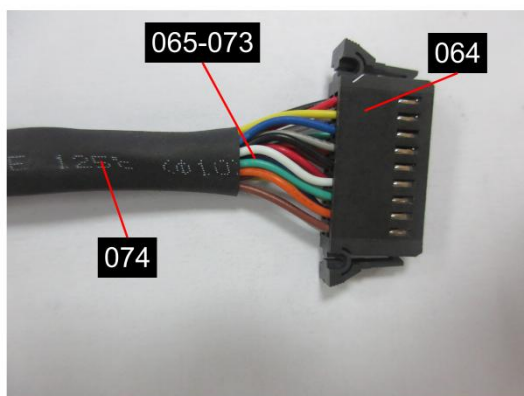
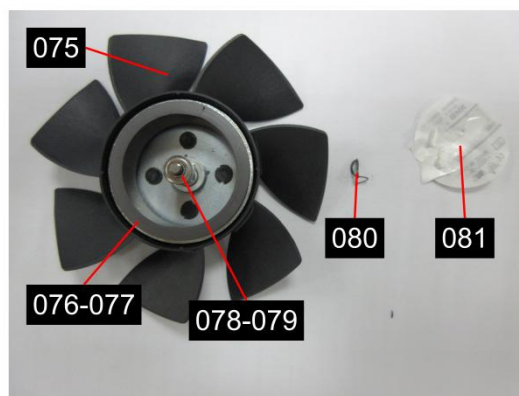


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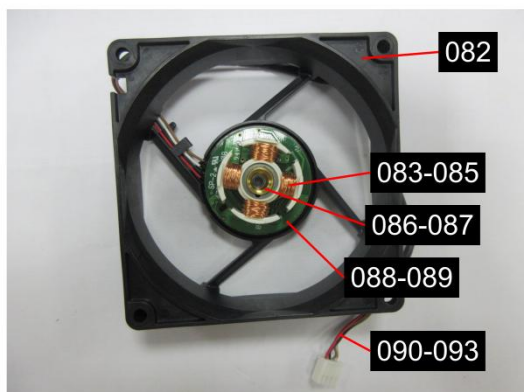
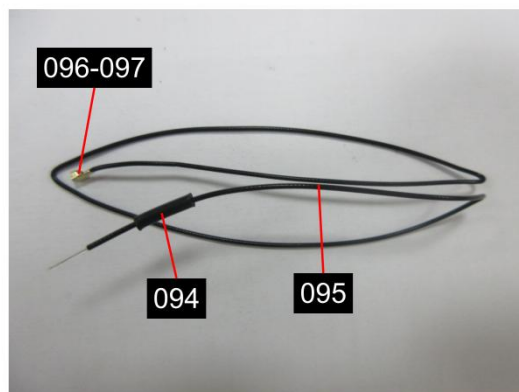
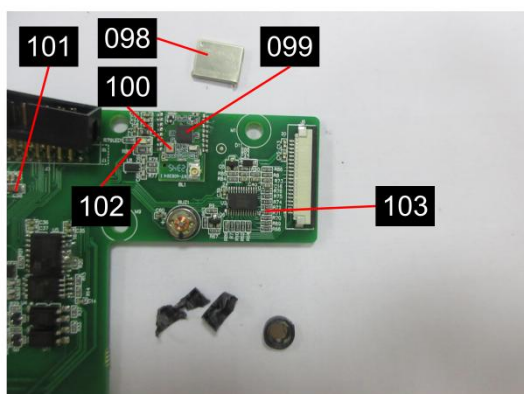
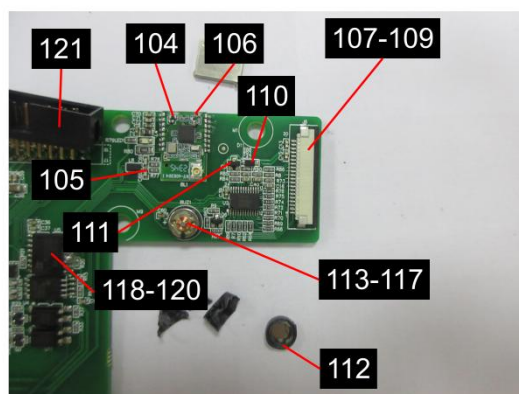
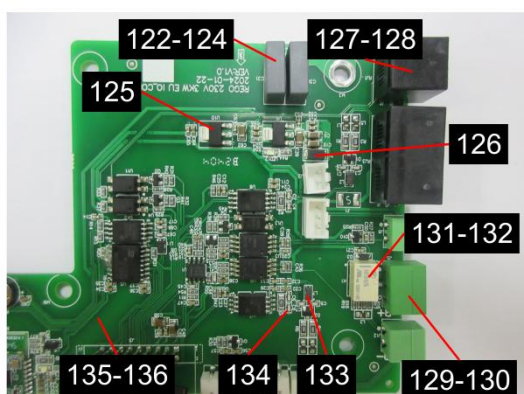
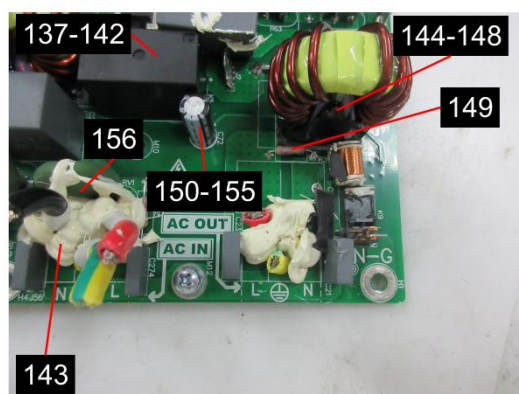


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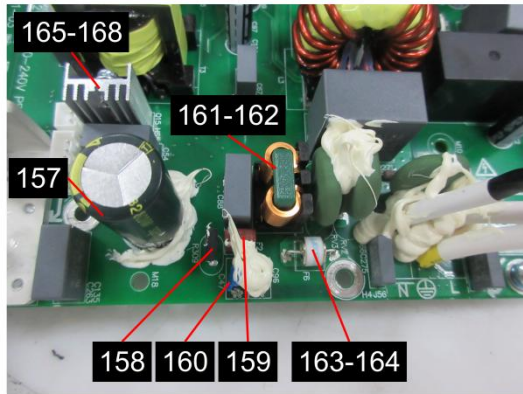
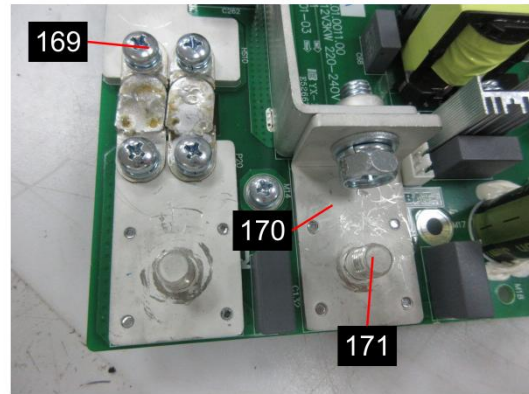
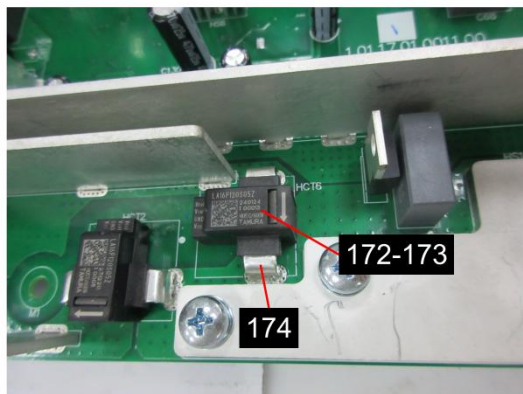
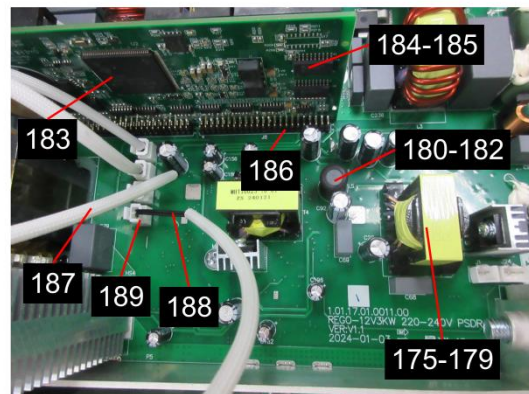
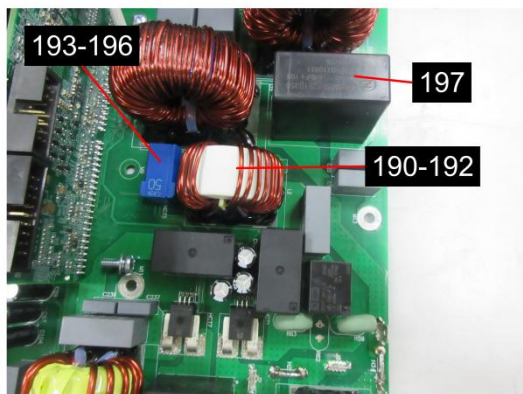
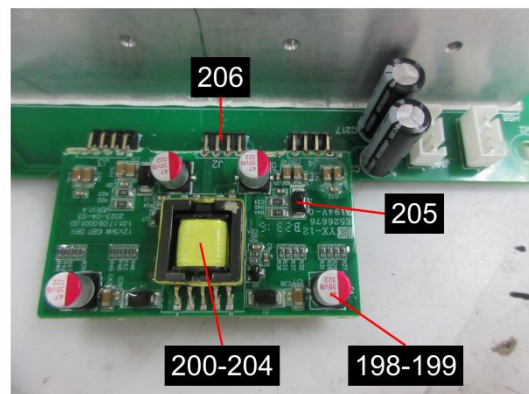


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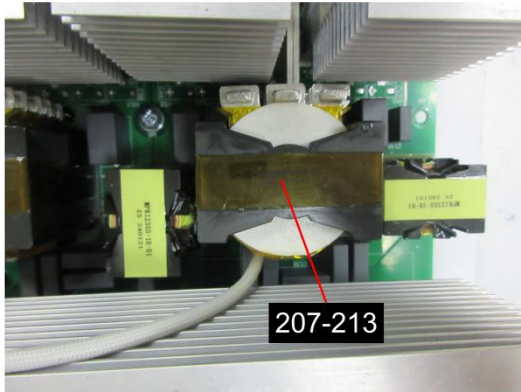
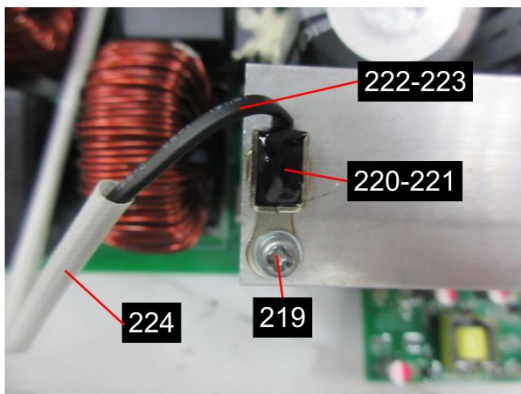
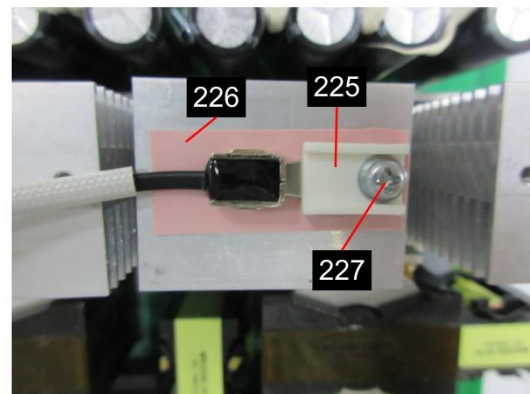
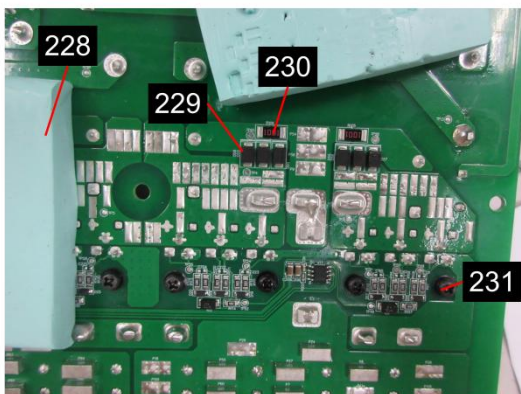
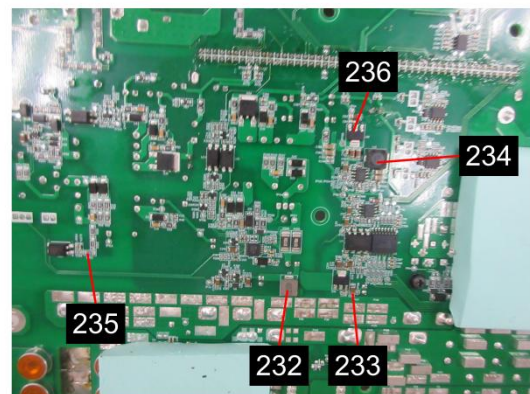


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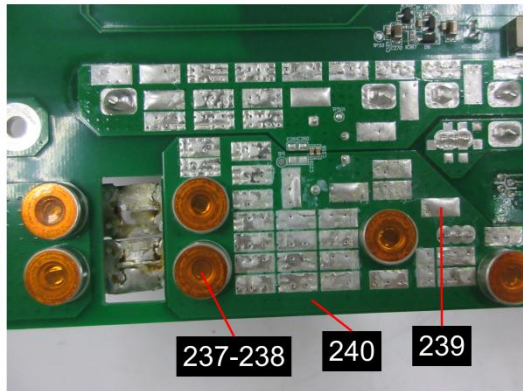
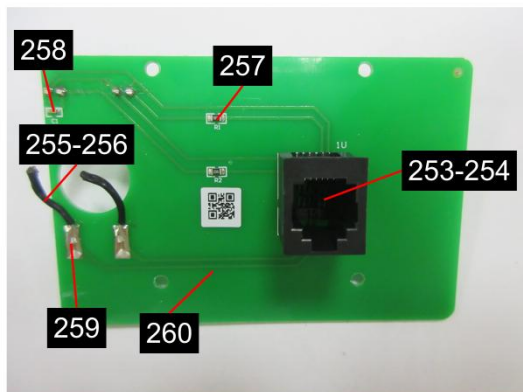
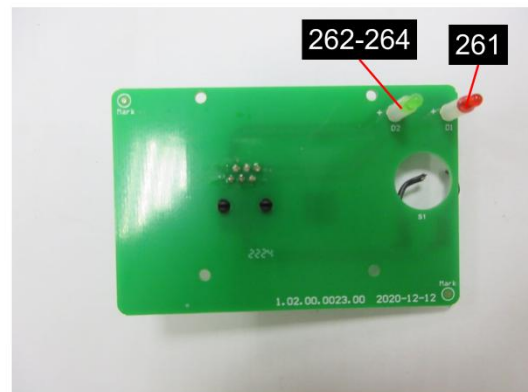
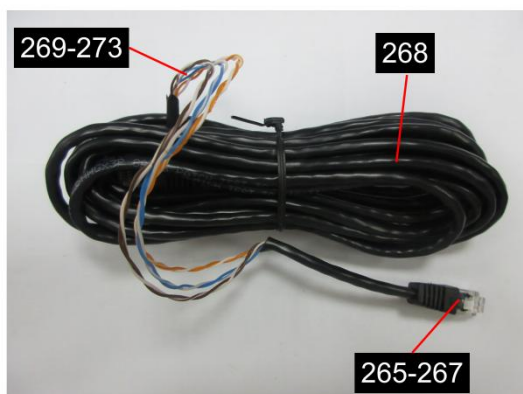
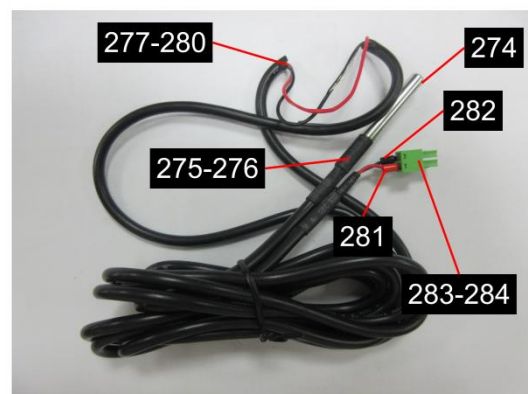


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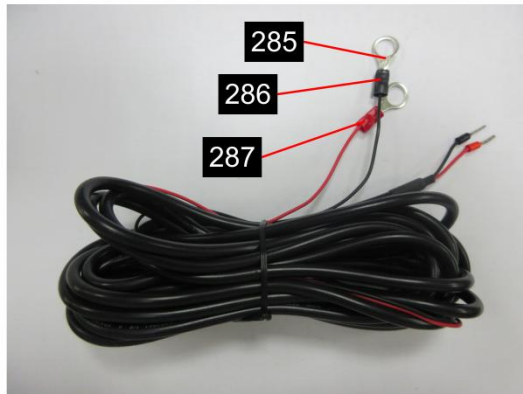
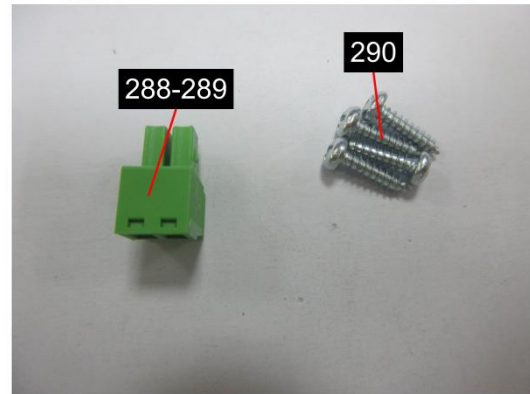
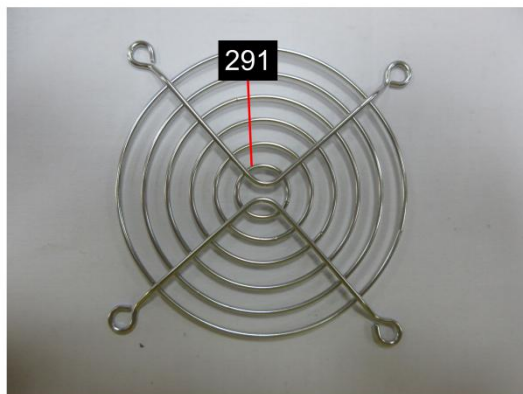
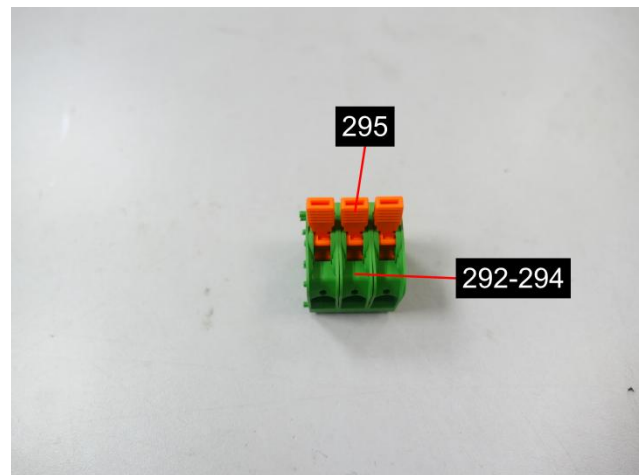


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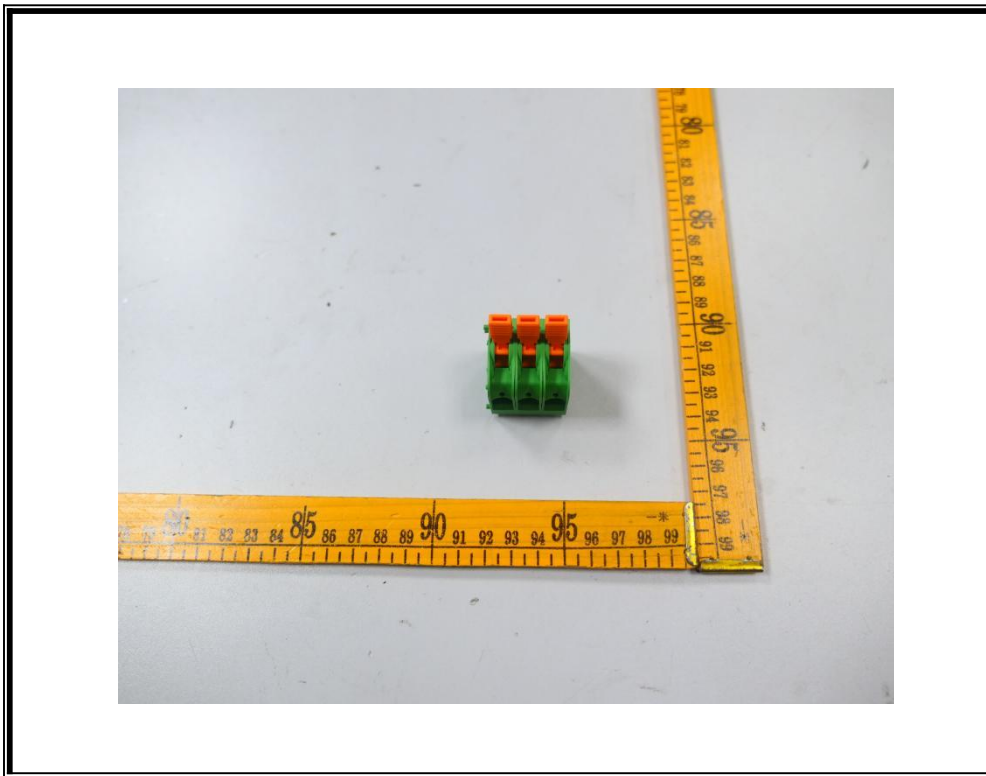
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3.Photo of the Submitted Sample



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Additional picture:



EST Technology authenticate the photo on original report only

**** End of Report ****

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