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Client: MÜNCHEN ENERGIEPRODUKTE GMBH

Contact Information: Stethaimerstr.32-34,84034 Landshut, Deutschland

**Identification/
Model No(s):** AR500

Condition at delivery: Test item complete and undamaged.

Sample Receiving date: 2021-09-09, 2021-10-22

Testing Period: 2021-09-09 to 2021-11-23

Place of testing: Chemical laboratory Shanghai

Test Specification:

1. Screening Test by XRF Spectroscopy

Test result:

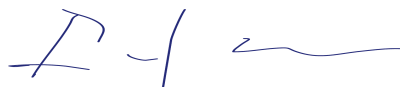
PASS

According to RoHS (recast): Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment, 2011/65/EU Annex II and its amendment.

Other information:

Remark: All data refer to 244319489a 001.
Brand (Trade) Name: Max.on

For and on behalf of
TÜV Rheinland (Shanghai) Co., Ltd.



2022-08-08

Ryan Chen / Section Manager

Date

Name/Position

Sample information is provided by customer. Test result is drawn according to the kind and extent of tests performed.
This test report relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.
"Decision Rule" document announced in our website (<https://www.tuv.com/landingpage/en/qm-gcn/>) describes the statement of conformity and its rule of enforcement for test results are applicable throughout this test report.

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Material List:

Item:

AR500

Material No.	Material	Color	Location
M001	Plastic + printing	White+Grey	Refer to photo
M002	Plastic	Transparent	Refer to photo
M003	Plastic	Translucent	Refer to photo
M004	Foam + adhesive	Black	Refer to photo
M005	Plastic + printing + adhesive	Black+White	Refer to photo
M006	Metal	Golden	Refer to photo
M007	Metal	Silvery	Refer to photo
M008	Metal	Silvery	Refer to photo
M009	Plastic	Transparent	Refer to photo
M010	Metal	Silvery	Refer to photo
M011	Plastic	White	Refer to photo
M012	Plastic + adhesive	White	Refer to photo
M013	Magnet	Grey-black	Refer to photo
M014	Plastic	White	Refer to photo
M015	Magnet	Grey-black	Refer to photo
M016	PCB board	Green	Refer to photo
M017	Plastic	White	Refer to photo
M018	Electronic components	Black	Refer to photo
M019	Plastic	Yellow	Refer to photo
M020	Glue	White	Refer to photo
M021	Metal	Golden	Refer to photo
M022	Solder	Silvery	Refer to photo
M023	PCB board	Green	Refer to photo
M024	Plastic	Black	Refer to photo
M025	Metal	Silvery	Refer to photo
M026	Solder	Silvery	Refer to photo
M027	Plastic	White	Refer to photo
M028	Solder	Silvery	Refer to photo

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M029	PCB board	Green	Refer to photo
M030	Metal	Silvery	Refer to photo
M031	Plastic	Black	Refer to photo
M032	Plastic + adhesive	White	Refer to photo
M033	Plastic + adhesive	Silvery	Refer to photo
M034	Plastic	White	Refer to photo
M035	Plastic	White+Silvery	Refer to photo
M036	Plastic	Translucent	Refer to photo
M037	Glass	Transparent grey	Refer to photo
M038	Glue	Black	Refer to photo
M039	Plastic	Dark yellow	Refer to photo
M040	Plastic + adhesive	Transparent yellow	Refer to photo
M041	Solder	Silvery	Refer to photo
M042	PCB board	Green	Refer to photo
M043	PCB board	Green	Refer to photo
M044	Electronic components	Dark red	Refer to photo
M045	Solder	Silvery	Refer to photo
M046	Textile	White	Refer to photo
M047	Silicon	Light blue	Refer to photo
M048	Plastic	White	Refer to photo
M049	Metal	Silvery	Refer to photo
M050	Metal	Silvery	Refer to photo
M051	Coating	Black	Refer to photo
M052	Metal	Silvery	Refer to photo
M053	Metal	Silvery	Refer to photo
M054	Metal	Silvery	Refer to photo
M055	Metal	Silvery	Refer to photo
M056	Metal	Silvery	Refer to photo
M057	Metal	Black	Refer to photo
M058	Metal	Black	Refer to photo
M059	Plastic	Black	Refer to photo
M060	PCB board	Green	Refer to photo

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M061	Plastic	Black	Refer to photo
M062	Solder	Silvery	Refer to photo
M063	Plastic	Black	Refer to photo
M064	Textile + adhesive	Black	Refer to photo
M065	Plastic + printing + adhesive	White+Black	Refer to photo
M066	Plastic	White	Refer to photo
M067	Plastic	White	Refer to photo
M068	Plastic	Black	Refer to photo
M069	Metal	Silvery	Refer to photo
M070	Metal	Silvery	Refer to photo
M071	Plastic	Light yellow	Refer to photo
M072	Metal	Silvery	Refer to photo
M073	Coating	Black	Refer to photo
M074	PCB board	Green	Refer to photo
M075	Electronic components	Black	Refer to photo
M076	Metal	Copper	Refer to photo
M077	Electronic components	Green	Refer to photo
M078	Electronic components	Grey	Refer to photo
M079	Plastic + adhesive	Yellow	Refer to photo
M080	Metal	Copper	Refer to photo
M081	Plastic	Black	Refer to photo
M082	Electronic components	Black+Grey	Refer to photo
M083	Plastic	Grey-black	Refer to photo
M084	Solder	Silvery	Refer to photo
M085	Plastic	Black	Refer to photo
M086	Plastic	Black	Refer to photo
M087	Metal	Copper	Refer to photo
M088	Metal	Golden	Refer to photo
M089	Solder	Silvery	Refer to photo
M090	Metal	Silvery	Refer to photo
M091	Plastic	Navy	Refer to photo
M092	Coated textile	White	Refer to photo

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M093	Plastic	Black	Refer to photo
M094	Plastic	Red	Refer to photo
M095	Plastic	Black	Refer to photo
M096	Plastic	White	Refer to photo
M097	Plastic	White	Refer to photo
M098	Plastic	White+Blue	Refer to photo
M099	Metal	Golden	Refer to photo
M100	Glue	Black	Refer to photo
M101	Electronic components	Yellow+White	Refer to photo
M102	Solder	Silvery	Refer to photo
M103	Metal + coating	Silvery+White	Refer to photo
M104	Plastic	Black	Refer to photo
M105	Plastic	Red	Refer to photo
M106	Solder	Silvery	Refer to photo
M107	Plastic	Red	Refer to photo
M108	Plastic	Black	Refer to photo
M109	Plastic	Dark grey	Refer to photo
M110	Plastic	Yellow	Refer to photo
M111	Metal	Silvery	Refer to photo
M112	Metal	Silvery	Refer to photo
M113	Plastic	Black	Refer to photo
M114	Plastic	White	Refer to photo
M115	Metal	Golden	Refer to photo
M116	Solder	Silvery	Refer to photo
M117	Plastic	Dark red	Refer to photo
M118	Plastic	Black	Refer to photo
M119	Textile	Black	Refer to photo
M120	Plastic	Black	Refer to photo
M121	Metal	Golden	Refer to photo
M122	Solder	Silvery	Refer to photo
M123	Plastic	Black	Refer to photo
M124	PCB board	Dark yellow	Refer to photo

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M125	Metal	Silvery	Refer to photo
M126	Plastic	Black	Refer to photo
M127	Plastic	Black	Refer to photo
M128	Plastic + printing + adhesive	Black+Grey	Refer to photo
M129	Metal	Copper	Refer to photo
M130	PCB board	Green	Refer to photo
M131	Solder	Silvery	Refer to photo
M132	Plastic + adhesive	Transparent	Refer to photo
M133	Plastic + printing + adhesive	Silvery+Black	Refer to photo
M134	Plastic	Black	Refer to photo
M135	PCB board	Green	Refer to photo
M136	Solder	Silvery	Refer to photo
M137	Textile + adhesive	White	Refer to photo
M138	Plastic	Brown	Refer to photo
M139	Plastic	Black	Refer to photo
M140	Plastic	Grey	Refer to photo
M141	Plastic	Purple	Refer to photo
M142	Plastic	White	Refer to photo
M143	Plastic	Turquoise	Refer to photo
M144	Paper	Dark green	Refer to photo
M145	Foam + adhesive	Black	Refer to photo

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1.Screening Test by XRF spectroscopy

Test Method: Cadmium, Lead, Mercury, Chromium, Bromine
-- With reference to IEC 62321-3-1:2013

Test Result:

Material No.	Cd	Cr	Pb	Hg	Br
M001	< BL	< BL	< BL	< BL	< BL
M002	< BL	< BL	< BL	< BL	< BL
M003	< BL	< BL	< BL	< BL	< BL
M004	< BL	< BL	< BL	< BL	< BL
M005	< BL	< BL	< BL	< BL	< BL
M006	< BL	< BL	d*1	< BL	n.a.
M007	< BL	< BL	< BL	< BL	n.a.
M008	< BL	d*1	< BL	< BL	n.a.
M009	< BL	< BL	< BL	< BL	< BL
M010	< BL	d*1	< BL	< BL	n.a.
M011	< BL	< BL	< BL	< BL	< BL
M012	< BL	< BL	< BL	< BL	< BL
M013	< BL	< BL	< BL	< BL	n.a.
M014	< BL	< BL	< BL	< BL	< BL
M015	< BL	< BL	< BL	< BL	n.a.
M016	< BL	< BL	< BL	< BL	d*1
M017	< BL	< BL	< BL	< BL	d*1
M018	< BL	< BL	< BL	< BL	< BL
M019	< BL	< BL	< BL	< BL	d*1
M020	< BL	< BL	< BL	< BL	< BL
M021	< BL	< BL	d*1	< BL	n.a.
M022	< BL	< BL	< BL	< BL	n.a.
M023	< BL	< BL	< BL	< BL	< BL
M024	< BL	< BL	< BL	< BL	< BL
M025	< BL	d*1	< BL	< BL	n.a.
M026	< BL	< BL	< BL	< BL	n.a.
M027	< BL	< BL	< BL	< BL	< BL
M028	< BL	< BL	< BL	< BL	n.a.
M029	< BL	< BL	< BL	< BL	d*1
M030	< BL	< BL	< BL	< BL	n.a.
M031	< BL	< BL	< BL	< BL	d*1
M032	< BL	< BL	< BL	< BL	< BL
M033	< BL	< BL	< BL	< BL	< BL
M034	< BL	< BL	< BL	< BL	< BL
M035	< BL	< BL	< BL	< BL	< BL
M036	< BL	< BL	< BL	< BL	< BL
M037	< BL	< BL	< BL	< BL	n.a.

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M038	< BL	< BL	< BL	< BL	< BL
M039	< BL	< BL	< BL	< BL	< BL
M040	< BL	< BL	< BL	< BL	< BL
M041	< BL	< BL	< BL	< BL	n.a.
M042	< BL	< BL	< BL	< BL	d*1
M043	< BL	< BL	< BL	< BL	< BL
M044	< BL	< BL	< BL	< BL	< BL
M045	< BL	< BL	< BL	< BL	n.a.
M046	< BL	< BL	< BL	< BL	< BL
M047	< BL	< BL	< BL	< BL	< BL
M048	< BL	< BL	< BL	< BL	< BL
M049	< BL	< BL	< BL	< BL	n.a.
M050	< BL	d*1	< BL	< BL	n.a.
M051	< BL	< BL	< BL	< BL	< BL
M052	< BL	d*1	< BL	< BL	n.a.
M053	< BL	d*1	< BL	< BL	n.a.
M054	< BL	d*1	< BL	< BL	n.a.
M055	< BL	< BL	< BL	< BL	n.a.
M056	< BL	< BL	< BL	< BL	n.a.
M057	< BL	d*1	< BL	< BL	n.a.
M058	< BL	d*1	< BL	< BL	n.a.
M059	< BL	< BL	< BL	< BL	< BL
M060	< BL	< BL	< BL	< BL	d*1
M061	< BL	< BL	< BL	< BL	< BL
M062	< BL	< BL	< BL	< BL	n.a.
M063	< BL	< BL	< BL	< BL	< BL
M064	< BL	< BL	< BL	< BL	< BL
M065	< BL	< BL	< BL	< BL	< BL
M066	< BL	< BL	< BL	< BL	d*1
M067	< BL	< BL	< BL	< BL	< BL
M068	< BL	< BL	< BL	< BL	< BL
M069	< BL	< BL	< BL	< BL	n.a.
M070	< BL	< BL	< BL	< BL	n.a.
M071	< BL	< BL	< BL	< BL	d*1
M072	< BL	< BL	< BL	< BL	n.a.
M073	< BL	< BL	< BL	< BL	< BL
M074	< BL	< BL	< BL	< BL	d*1
M075	< BL	< BL	< BL	< BL	< BL
M076	< BL	< BL	< BL	< BL	n.a.
M077	< BL	< BL	< BL	< BL	< BL
M078	< BL	< BL	< BL	< BL	d*1
M079	< BL	< BL	< BL	< BL	< BL
M080	< BL	< BL	< BL	< BL	n.a.

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M081	< BL	< BL	< BL	< BL	< BL
M082	< BL	< BL	< BL	< BL	< BL
M083	< BL	< BL	< BL	< BL	< BL
M084	< BL	< BL	< BL	< BL	n.a.
M085	< BL	< BL	< BL	< BL	< BL
M086	< BL	< BL	< BL	< BL	< BL
M087	< BL	< BL	< BL	< BL	n.a.
M088	< BL	< BL	< BL	< BL	n.a.
M089	< BL	< BL	< BL	< BL	n.a.
M090	< BL	< BL	< BL	< BL	n.a.
M091	< BL	< BL	< BL	< BL	< BL
M092	< BL	< BL	< BL	< BL	< BL
M093	< BL	< BL	< BL	< BL	< BL
M094	< BL	< BL	< BL	< BL	< BL
M095	< BL	< BL	< BL	< BL	< BL
M096	< BL	< BL	< BL	< BL	< BL
M097	< BL	< BL	< BL	< BL	< BL
M098	< BL	< BL	< BL	< BL	d*1
M099	< BL	< BL	< BL	< BL	n.a.
M100	< BL	< BL	< BL	< BL	< BL
M101	< BL	< BL	< BL	< BL	< BL
M102	< BL	< BL	< BL	< BL	n.a.
M103	< BL	< BL	< BL	< BL	n.a.
M104	< BL	< BL	< BL	< BL	< BL
M105	< BL	< BL	< BL	< BL	< BL
M106	< BL	< BL	< BL	< BL	n.a.
M107	< BL	< BL	< BL	< BL	< BL
M108	< BL	< BL	< BL	< BL	< BL
M109	< BL	< BL	< BL	< BL	d*1
M110	< BL	< BL	< BL	< BL	d*1
M111	< BL	< BL	< BL	< BL	n.a.
M112	< BL	< BL	< BL	< BL	n.a.
M113	< BL	< BL	< BL	< BL	< BL
M114	< BL	< BL	< BL	< BL	n.a.
M115	< BL	< BL	d*1	< BL	n.a.
M116	< BL	< BL	< BL	< BL	n.a.
M117	< BL	< BL	< BL	< BL	< BL
M118	< BL	< BL	< BL	< BL	< BL
M119	< BL	< BL	< BL	< BL	< BL
M120	< BL	< BL	< BL	< BL	d*1
M121	< BL	< BL	d*1	< BL	n.a.
M122	< BL	< BL	< BL	< BL	n.a.
M123	< BL	< BL	< BL	< BL	< BL

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M124	< BL	< BL	< BL	< BL	< BL
M125	< BL	< BL	< BL	< BL	n.a.
M126	< BL	< BL	< BL	< BL	d*1
M127	< BL	< BL	< BL	< BL	d*1
M128	< BL	< BL	< BL	< BL	< BL
M129	< BL	< BL	< BL	< BL	n.a.
M130	< BL	< BL	< BL	< BL	d*1
M131	< BL	< BL	< BL	< BL	n.a.
M132	< BL	< BL	< BL	< BL	< BL
M133	< BL	< BL	< BL	< BL	< BL
M134	< BL	< BL	< BL	< BL	d*1
M135	< BL	< BL	< BL	< BL	d*1
M136	< BL	< BL	< BL	< BL	n.a.
M137	< BL	< BL	< BL	< BL	< BL
M138	< BL	< BL	< BL	< BL	< BL
M139	< BL	< BL	< BL	< BL	< BL
M140	< BL	< BL	< BL	< BL	< BL
M141	< BL	< BL	< BL	< BL	< BL
M142	< BL	< BL	< BL	< BL	< BL
M143	< BL	< BL	< BL	< BL	< BL
M144	< BL	< BL	< BL	< BL	< BL
M145	< BL	< BL	< BL	< BL	d*1

Abbreviation: Pb = Lead
 Cd = Cadmium
 Hg = Mercury
 Cr = Chromium
 Br = Bromine
 n.a. = Not applicable
 BL = Below limit
 OL = Over limit
 d. = Detected

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Remark:

- (*1) The screening result was found in the inconclusive region, thus the further wet chemistry tests are suggested.
- (*2) Component(s)/ materials(s) with an area of less than 2mm x2 mm will not be selected for testing according to RoHS Directive 2011/65/EU due to technical reason.
For the test sample does not have detail materials information provided by client, visually identical materials (e.g. wire insulation, solder points, etc.) will be considered as the same material.
Solder points on a printing circuit board will be examined several times based on optical anomalies or discoloration of the solder point(s) unless the solder point(s) is obviously generated automatically during production.
All other materials will be sampled and tested at one test point representatively.
- (*3) The Chromium (Cr) and Bromine (Br) in the above result table indicate the total chromium and total bromine by means of XRF screening.
PBBs, or PBDEs content shall be further confirmed with reference to IEC 62321-6:2015.
Chromium (VI) shall be further confirmed with reference to IEC 62321-7-1:2015, IEC 62321-7-2:2017 or EN ISO 17075-1:2017.

XRF Screening limits for different matrices :

Material	Concentration (%)				
	Cd	Cr	Pb	Hg	Br
Polymeric	BL≤0.006<X<0.014≤ OL	BL≤0.064<X	BL≤0.067<X<0.133≤ OL	BL≤0.066<X< 0.134≤OL	BL≤0.029<X
Metallic	BL≤0.006<X<0.014≤ OL	BL≤0.064<X	BL≤0.067<X<0.133≤ OL	BL≤0.066<X< 0.134≤OL	n.a.
Composite materials	BL≤0.004<X<0.016≤ OL	BL≤0.044<X	BL≤0.047<X<0.153≤ OL	BL≤0.046<X< 0.154≤OL	BL≤0.024<X

Remark: The symbol "X" marks the region where further investigation is necessary.

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Cadmium, Lead, Chromium (VI), Mercury, Polybrominated biphenyls (PBB) and Polybrominated diphenyl ethers (PBDE)

Test Method: Total Cadmium, Lead, Mercury, Chromium
- Ref. to IEC 62321-4:2013+AMD1:2017 and IEC 62321-5:2013

Chromium (VI)
- For Metal material - Ref. to IEC 62321-7-1:2015
- For Plastic or Electronic material - Ref. to IEC 62321-7-2:2017
- For Leather material - Ref. to EN ISO 17075-1:2017

PBBs, PBDEs - Ref. to IEC 62321-6:2015

Test Result:

	Cd	Cr(VI)	Pb	Hg	PBBs (*)	PBDEs (*)
Maximum Permissible Limit (%)	0.01	0.1	0.1	0.1	0.1	0.1

Material No.	(%)					
	Cd	Cr ^{VI}	Pb	Hg	PBBs (*)	PBDEs (*)
	RL (%)					
	0.001	0.001	0.001	0.001	0.01	0.01
M006	n.a.	n.a.	2.53 6 (c)	n.a.	n.a.	n.a.
M016	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M017	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M019	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M021	n.a.	n.a.	1.52 6 (c)	n.a.	n.a.	n.a.
M029	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M031	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M042	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M060	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M066	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M071	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M074	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M078	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M098	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M109	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M110	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M115	n.a.	n.a.	1.58 6 (c)	n.a.	n.a.	n.a.
M120	n.a.	n.a.	n.a.	n.a.	< RL	< RL

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M121	n.a.	n.a.	1.47 6 (c)	n.a.	n.a.	n.a.
M126	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M127	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M130	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M134	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M135	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M145	n.a.	n.a.	n.a.	n.a.	< RL	< RL

Material No.	Hexavalent Chromium Content ($\mu\text{g}/\text{cm}^2$) (*1) RL: 0.10 $\mu\text{g}/\text{cm}^2$
M008	Negative
M010	Negative
M025	Negative
M050	Negative
M052	Negative
M053	Negative
M054	Negative
M057	Negative
M058	Negative

Abbreviation:

- Pb = Lead
- Cd = Cadmium
- Hg = Mercury
- Cr = Chromium
- Cr (VI) = Chromium (VI)
- PBBs = Total Polybrominated Biphenyls
- PBDEs = Total Polybrominated Diphenyl Ethers
- < = Less than
- RL = Reporting Limit
- n.a. = Not Applicable
- ^ = The total Chromium have been determined
- % = Percentage

Remark:

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(*1) The total chromium content in Metal sample was found to be exceeded the maximum permissible limit (0.1%). Thus, the Chromium (VI) content in surface layer have been confirmed with reference to IEC 62321-7-1:2015 Annex.

	Chromium (VI) concentration	Qualitative result
Negative	$<0.1\mu\text{g}/\text{cm}^2$	The sample is negative (-ve) for Cr(VI). The Cr(VI) concentration is below the limit of quantification. The coating is considered a non-Cr(VI) based coating
Inconclusive	$\geq 0.1\mu\text{g}/\text{cm}^2$ and $\leq 0.13\mu\text{g}/\text{cm}^2$	The result is considered to be inconclusive. Unavoidable coating variations may influence the determination. Recommendation: if additional samples are available, perform a total of 3 trials to increase sampling surface area. Use the averaged result of the 3 trails for the final determination.
Positive	$>0.13\mu\text{g}/\text{cm}^2$	The sample is positive (+ve) for Cr(VI). Concentration is above the limit of quantification and the statistical margin of error. The sample coating is considered to contain Cr(VI).

6 (c) Copper alloy containing up to 4 % lead by weight.

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BBP, DBP, DEHP, DIBP content

Test Method: IEC 62321-8:2017

Test Result:

	BBP	DBP	DEHP	DIBP
Maximum permissible Limit (%)	0.1	0.1	0.1	0.1

Test No.	Material No.	RL (%)			
		BBP	DBP	DEHP	DIBP
		RL (%)			
		0.005	0.005	0.005	0.005
T001	M001 + M002 + M003	< RL	< RL	< RL	< RL
T002	M005 + M009 + M011	< RL	< RL	< RL	< RL
T003	M012 + M014 + M016	< RL	< RL	< RL	< RL
T004	M017 + M018 + M019	< RL	< RL	< RL	< RL
T005	M023 + M024 + M027	< RL	< RL	< RL	< RL
T006	M029 + M031 + M032	< RL	< RL	< RL	< RL
T007	M033 + M034 + M035	< RL	< RL	< RL	< RL
T008	M036 + M039 + M040	< RL	< RL	< RL	< RL
T009	M042 + M043 + M044	< RL	< RL	< RL	< RL
T010	M047 + M048 + M059	< RL	< RL	< RL	< RL
T011	M060 + M061 + M063	< RL	< RL	< RL	< RL
T012	M065 + M066 + M067	< RL	< RL	< RL	< RL
T013	M068 + M071 + M074	< RL	< RL	< RL	< RL
T014	M075 + M077 + M078	< RL	< RL	< RL	< RL
T015	M079 + M081 + M082	< RL	< RL	< RL	< RL
T016	M083 + M085 + M086	< RL	< RL	< RL	< RL
T017	M091 + M093 + M094	< RL	< RL	< RL	< RL
T018	M098 + M101 + M104	< RL	< RL	< RL	< RL
T019	M105 + M107 + M108	< RL	< RL	< RL	< RL
T020	M109 + M110 + M113	< RL	< RL	< RL	< RL
T021	M114 + M117 + M118	< RL	< RL	< RL	< RL

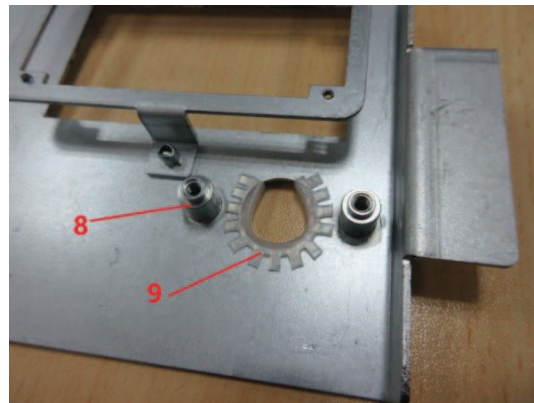
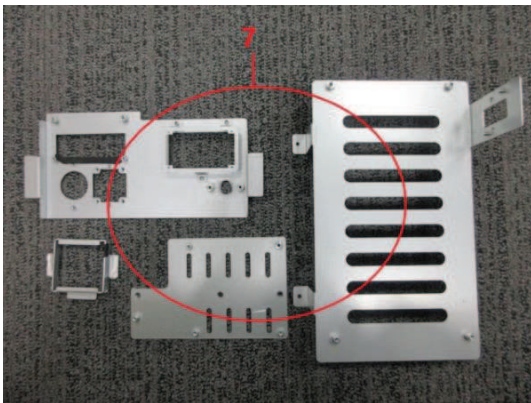
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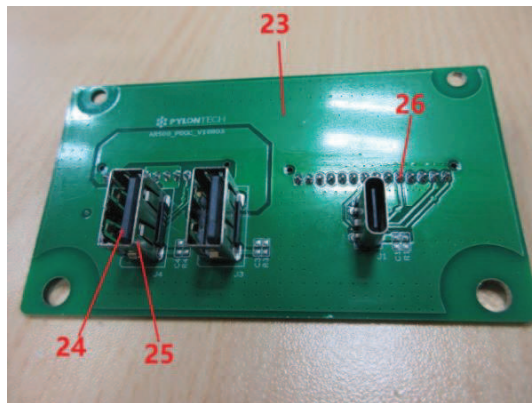
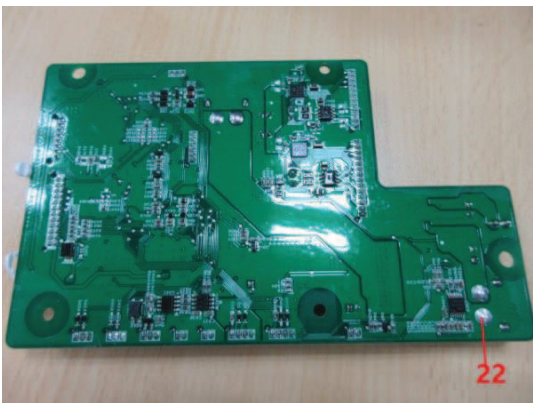
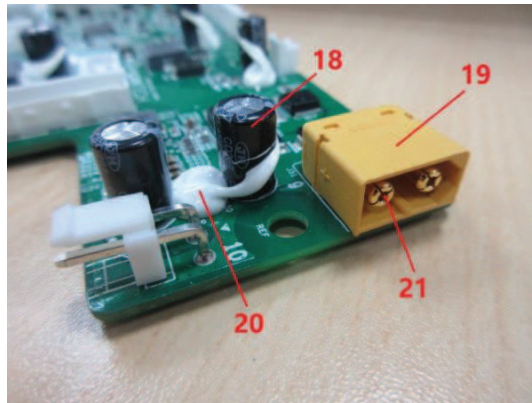
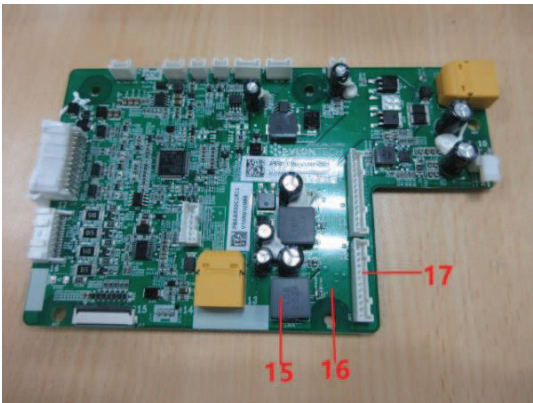
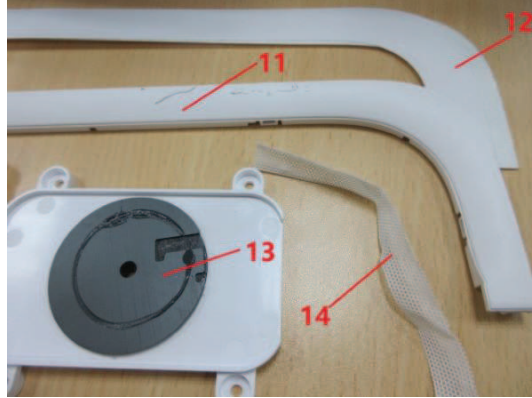
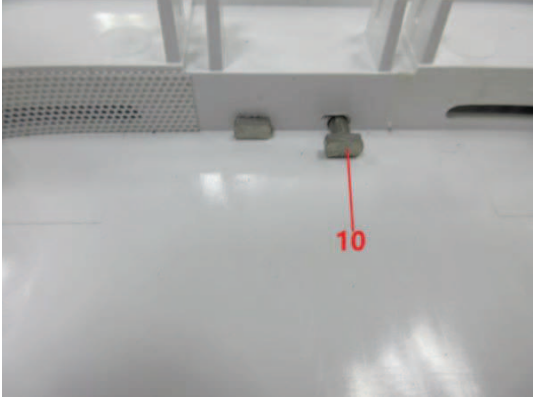
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T023	M126 + M127 + M128	< RL	< RL	< RL	< RL
T024	M130 + M132 + M133	< RL	< RL	< RL	< RL
T025	M051 + M073	< RL	< RL	< RL	< RL
T026	M092 + M064	< RL	< RL	< RL	< RL
T027	M020 + M038 + M100	< RL	< RL	< RL	< RL
T028	M004 + M145	< RL	< RL	< RL	< RL
T029	M096	< RL	< RL	< RL	< RL
T030	M097	< RL	0.016	< RL	< RL
T031	M095	< RL	< RL	< RL	< RL
T032	M134	< RL	< RL	< RL	< RL
T033	M135	< RL	< RL	< RL	< RL
T034	M137	< RL	< RL	< RL	< RL
T035	M138	< RL	< RL	< RL	< RL
T036	M139	< RL	< RL	< RL	< RL
T037	M140	< RL	0.030	< RL	< RL
T038	M141	< RL	< RL	< RL	< RL
T039	M142	< RL	< RL	< RL	< RL
T040	M143	< RL	< RL	< RL	< RL

Abbreviation: BBP= Benzylbutyl phthalate
 DBP= Dibutyl phthalate
 DEHP= Bis(2-ethylhexyl) phthalate
 DIBP= Diisobutyl phthalate
 < = less than
 RL = Reporting Limit
 N.A. = Not Applicable
 %= percentage

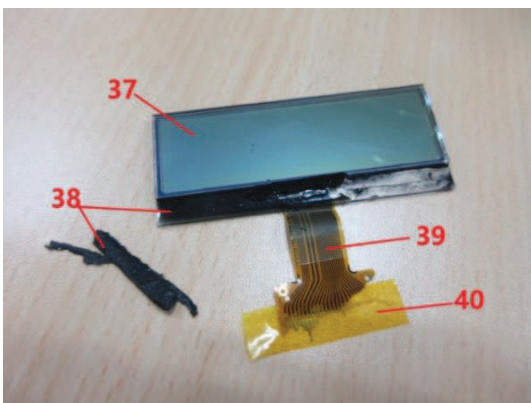
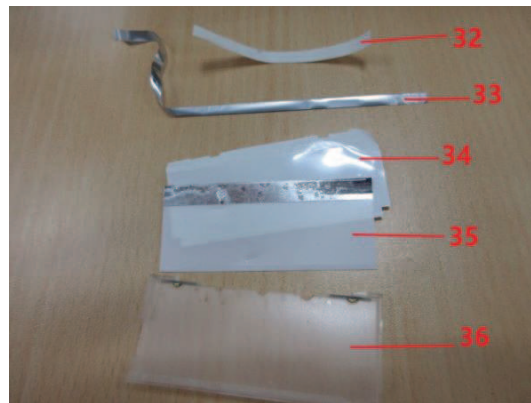
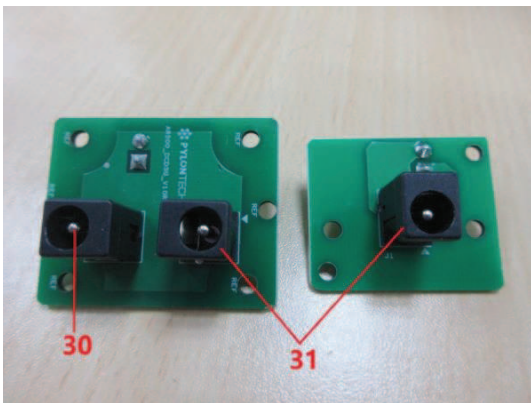
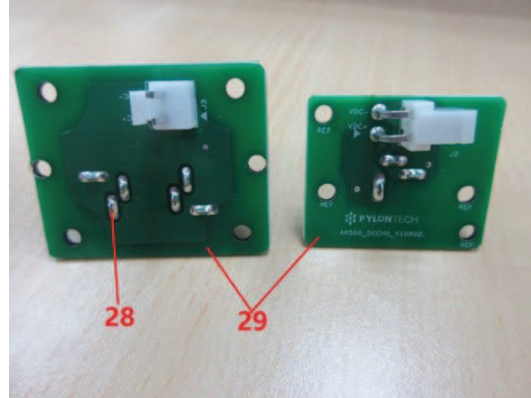
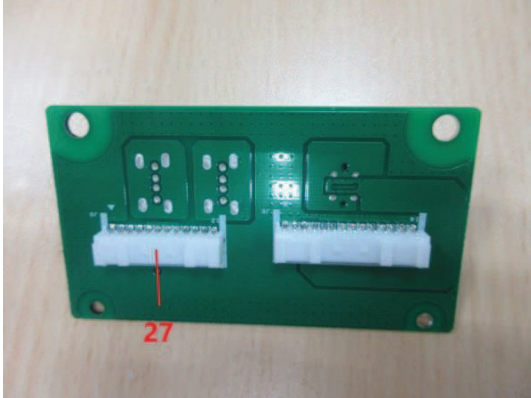
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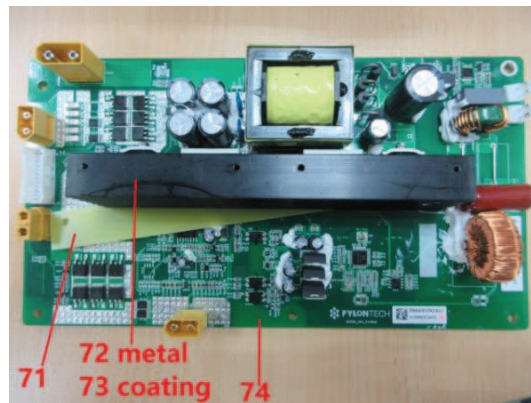
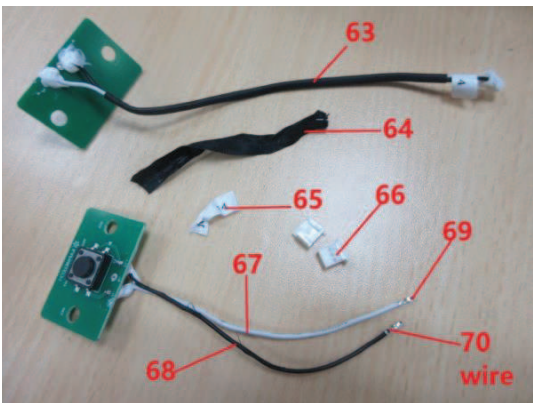
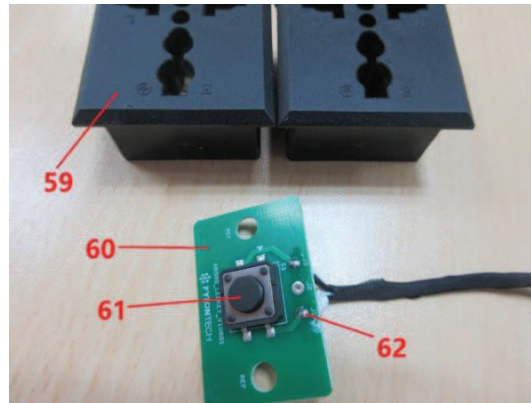
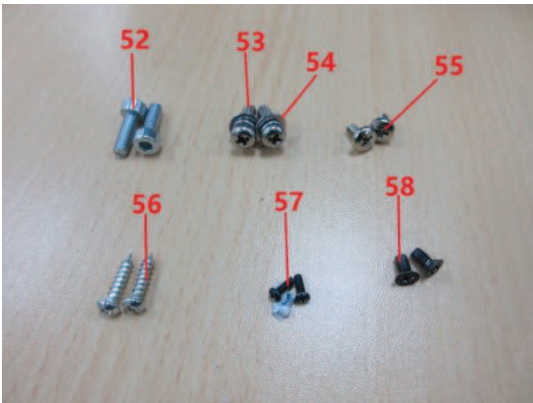
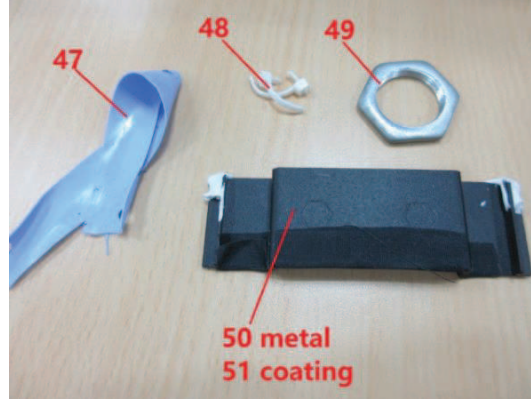
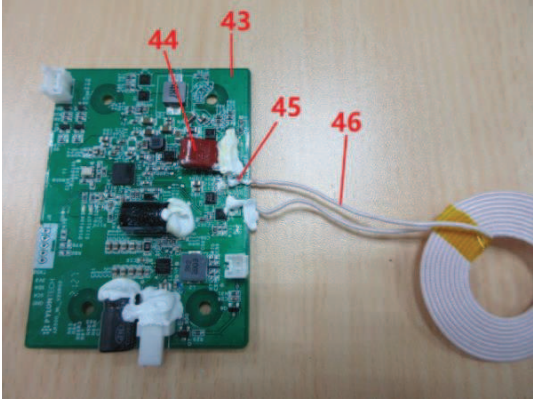
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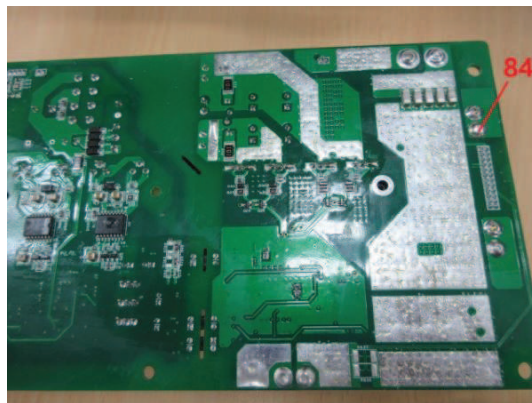
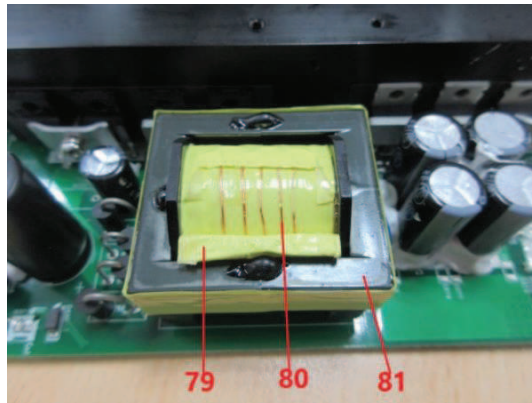
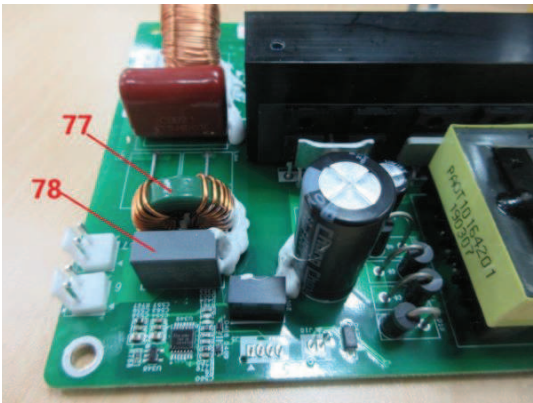
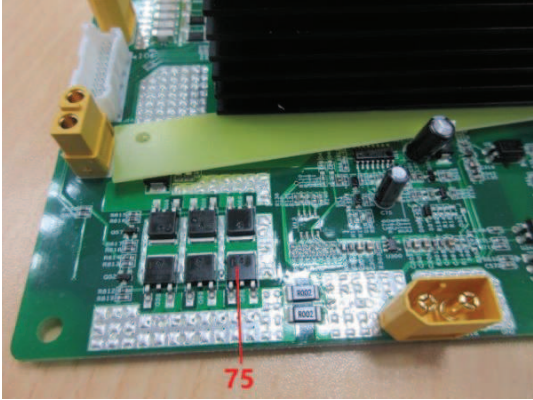
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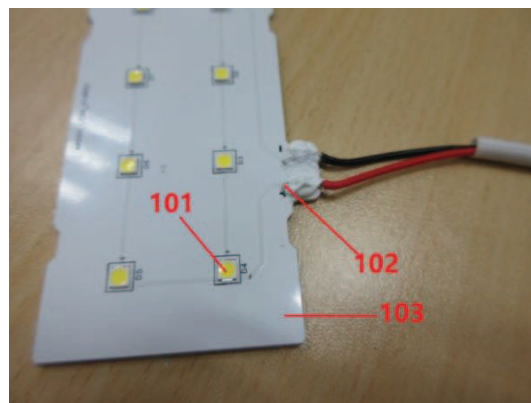
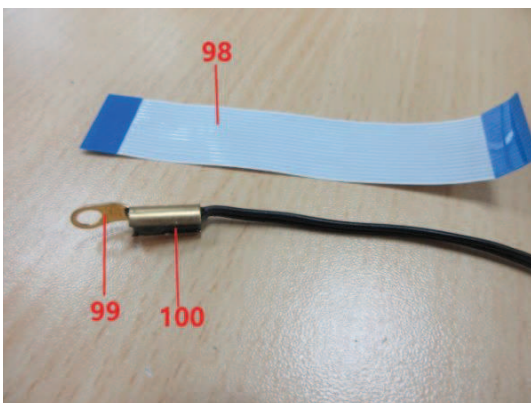
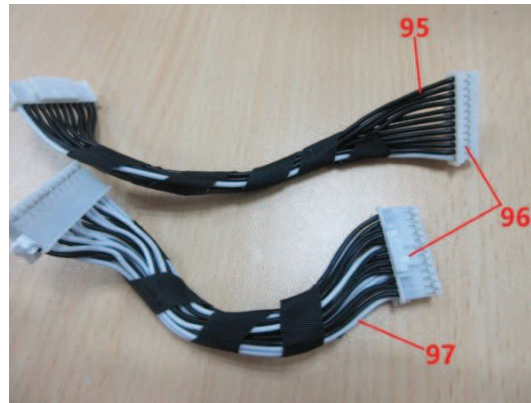
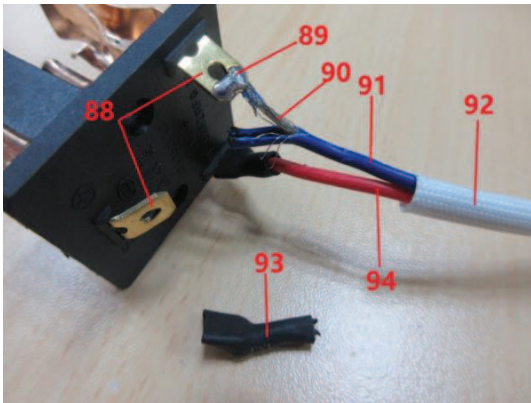
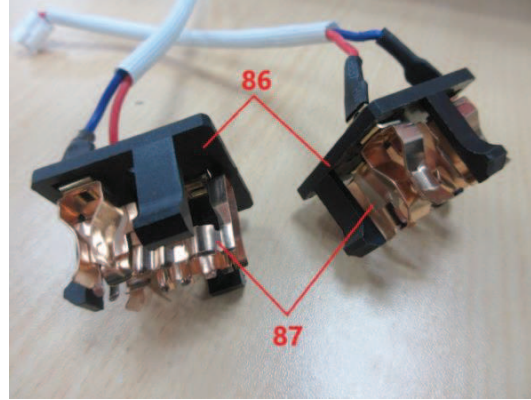
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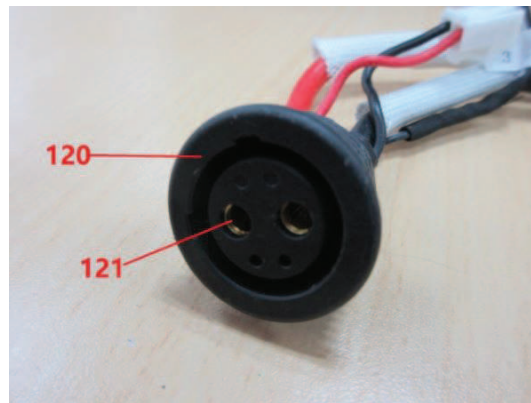
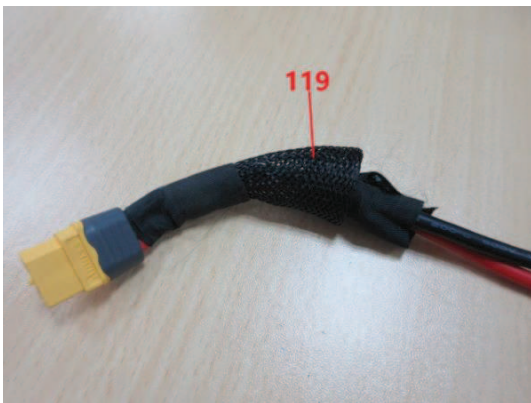
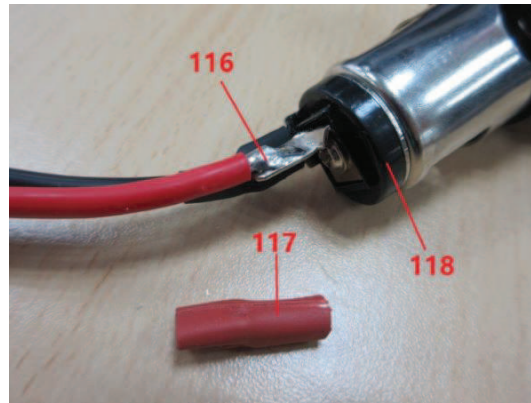
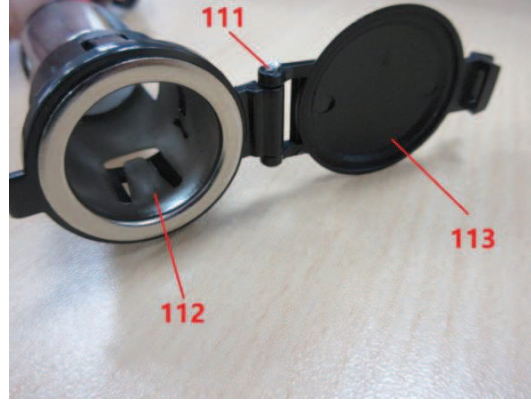
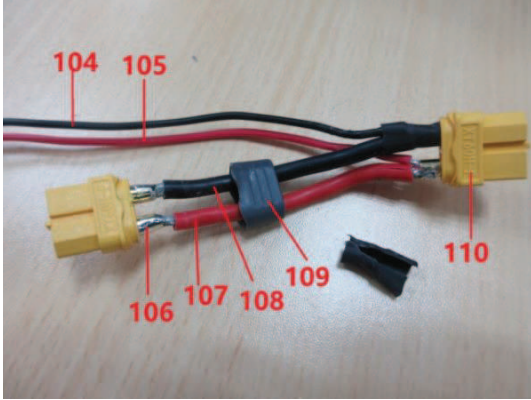
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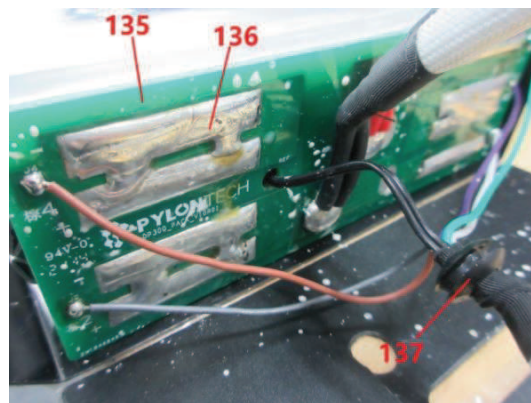
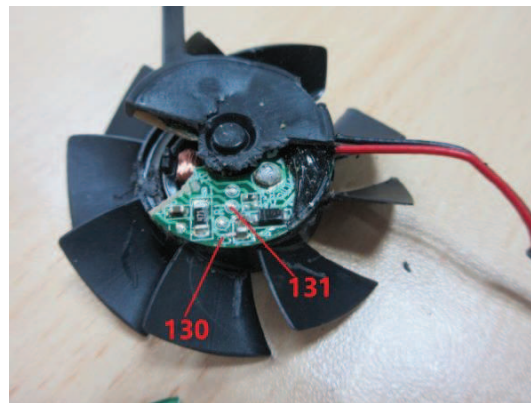
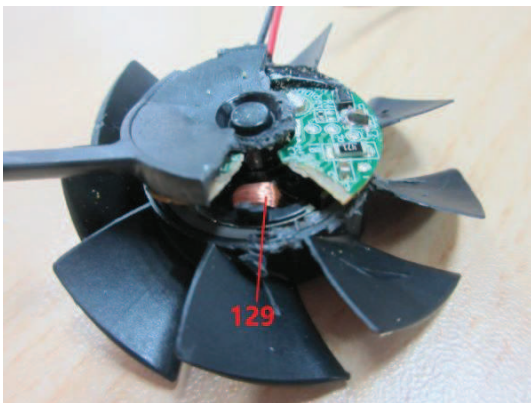
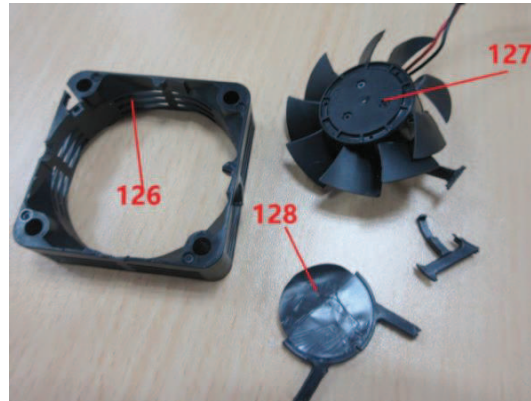
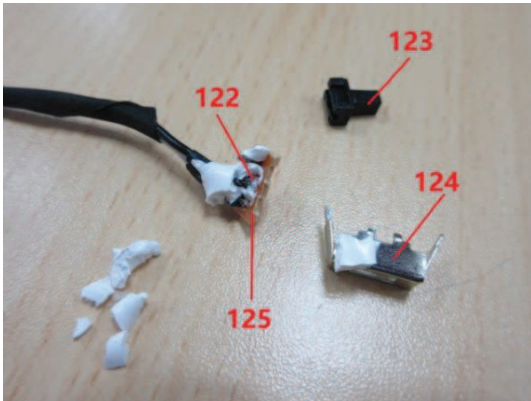
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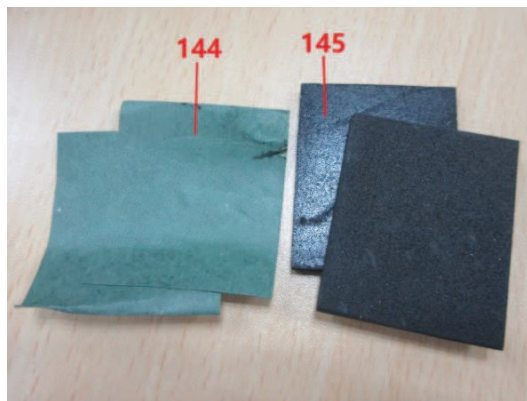
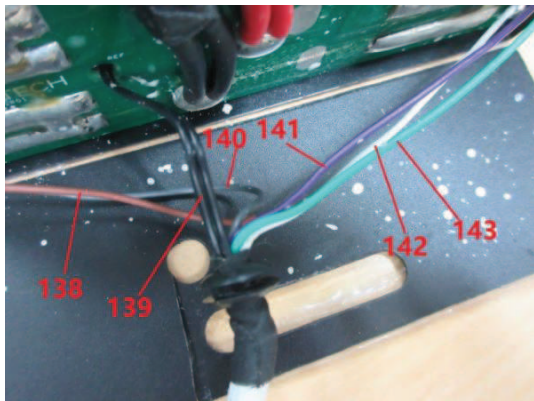
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General Terms and Conditions of Business of TÜV Rheinland in Greater China

1. **Scope**
 1.1 The General Terms and Conditions of Business of TÜV Rheinland in Greater China ("GTBC") is made between the client and one or more member entities of TÜV Rheinland in Greater China as applicable as the case may be (TÜV Rheinland). The Greater China hereof refers to Mainland China, Hong Kong and Taiwan. The client hereby includes:
 (i) a natural person capable to form legally binding contracts under the applicable laws who concludes the contract for the purpose of the GTBC;
 (ii) a legal entity established in accordance with the laws of the People's Republic of China (PRC) or other applicable laws;
 (iii) the incorporated or unincorporated entity duly organized, validly existing and capable to form legally binding contracts under the applicable law.
 1.2 The following terms and conditions apply to agreed services including consultancy services, information services and similar services as well as ancillary services and other secondary obligations provided within the scope of contract performance.
 Any standard terms and conditions of the client of any nature shall not apply and shall hereby be expressly excluded. No standard contractual terms and conditions of the client shall form part of the contract even if TÜV Rheinland does not explicitly object to them.
 1.4 In the context of an ongoing business relationship with the client, this GTBC shall also apply to future contracts unless the client has expressly agreed to refer to them separately in each individual case.

2. **Quotations**
 Unless otherwise agreed, all quotations submitted by TÜV Rheinland can be changed by TÜV Rheinland without notice prior to its acceptance and confirmation by the other party.

3. **Coming into effect and duration of contracts**
 3.1 The contract shall come into effect for the agreed terms upon the quotation letter of TÜV Rheinland or a separate contractual document being signed by both contracting parties, or upon work requested by the client being carried out by TÜV Rheinland. If the client instructs TÜV Rheinland without receiving a quotation from TÜV Rheinland (quotation), TÜV Rheinland is, in its sole discretion, not bound to accept the quotation. The client's acceptance (including notice sent via electronic means) or by performing the requested services.
 3.2 The contract term starts upon the coming into effect of the contract in accordance with article 3.1 and shall continue for the term agreed in the contract.
 3.3 If the contract provides for an extension of the contract term, the contract term will be extended by the term unless terminated in writing by either party with a three-month notice prior to the end of the contractual term.

4. **Scope of services**
 4.1 The scope and type of the services to be provided by TÜV Rheinland shall be specified in the contractually agreed service scope of TÜV Rheinland by both parties. If no such separate service scope of TÜV Rheinland exists, then the written confirmation of order by TÜV Rheinland shall be decisive for the services to be provided. Unless otherwise agreed, the scope beyond the scope of the service description (e.g. checking the correctness and functionality of parts, products, processes, installations, organizations not listed in the service description, as well as the intended use and application of such parts, products, processes, installations) is assumed for the design, selection of materials, construction or intended use of an examined part, product, process or plant, unless this is expressly stated in the order.
 4.2 The agreed services shall be performed in compliance with the regulations in force at the time the contract is entered into.
 4.3 TÜV Rheinland is entitled to determine, in its sole discretion, the method and nature of the assessment unless otherwise agreed in writing of mandatory provisions require a specific procedure to be followed.
 4.4 On execution of the work there shall be no simultaneous assumption of any guarantee of the correctness (proper quality) and working order of either tested or examined parts nor of the installation as a whole and its upstream and/or downstream processes, organizations, use and application in accordance with regulations, nor of the systems on which the installation is based. In particular, TÜV Rheinland shall not be responsible for the construction, selection of materials and assembly of installations examined, nor for their use and application in accordance with regulations, unless these questions are expressly covered by the contract.
 4.5 In the case of inspection work, TÜV Rheinland shall not be responsible for the accuracy or checking of the safety programmes or safety regulations on which the inspections are based, unless otherwise expressly agreed in writing.
 4.6 If mandatory legal regulations and standards or official requirements for the agreed service scope change after conclusion of the contract, with a written notice to the client, TÜV Rheinland shall be entitled to additional remuneration for resulting additional expenses.
 4.7 The services to be provided by TÜV Rheinland under the contract are agreed exclusively with the client. A contract of third parties with the services of TÜV Rheinland, as well as making available of and justifying confidence in the work results (test reports, test results, expert reports, etc.) is not part of the agreed services. This also applies if the client passes on work results - in full or in extracts - to third parties in accordance with clause 11.4.

5. **Performance period/dates**
 5.1 The contractually agreed periods/dates of performance are based on estimates of the work involved which are prepared in line with the details provided by the client. They shall only be binding if confirmed in writing by the client. In the event of a delay in the performance of the work, the client shall be liable for any damages.
 5.2 If binding periods of performance have been agreed, these periods shall not commence until the client has submitted all required documents to TÜV Rheinland.
 5.3 Articles 5.1 and 5.2 also apply, even if the client, to the extent of its obligations, has not submitted agreed periods/dates of performance not caused by TÜV Rheinland.
 5.4 TÜV Rheinland is not responsible for a delay in performance, in particular if the client has not fulfilled his obligation to cooperate in accordance with 5.1 and 5.2, or if the client, in particular, has not provided TÜV Rheinland with all documents and information required for the performance of the service as specified in the contract.
 5.5 In the performance of TÜV Rheinland is delayed due to unforeseeable circumstances such as force majeure, strikes, business disruptions, general regulatory regulations, transport obstacles, etc., TÜV Rheinland is entitled to postpone performance for a reasonable period of time which is required to assist to the duration of the hindrance plus any time period which may be required to restore performance.
 5.6 If the client is obliged to comply with legal, officially prescribed and/or by the accreditor prescribed deadlines, it is the client's responsibility to agree on performance dates with TÜV Rheinland, which enable the client to comply with the legal and/or officially prescribed deadlines. TÜV Rheinland assumes no responsibility in this respect unless TÜV Rheinland expressly agreed in writing specifically stating that ensuring the deadlines is the contractual obligation of TÜV Rheinland.

6. **The client's obligation to cooperate**
 6.1 The client shall guarantee that all cooperation required on its part, its agents or third parties will be provided in a timely manner to TÜV Rheinland.
 6.2 Design documents, supplies, auxiliary staff, etc. necessary for performance of the services shall be made available free of charge by the client. Moreover, collaborative action of the client shall be undertaken in accordance with legal provisions, standards, safety regulations and accident prevention instructions. And the client represents and warrants that:
 a) It has required statutory qualifications;
 b) The product, service or management system to be certified complies with applicable laws and regulations; and
 c) It doesn't have any illegal and dishonest behaviours or is not included in the list of Enterprises with Serious Illegal Disruptive Behaviours as announced by a reputable commercial bank in the country where TÜV Rheinland is located. At the same time, TÜV Rheinland reserves the right to claim further damages.
 6.3 If the client breaches the aforesaid representations and warranties, TÜV Rheinland is entitled to immediately terminate the contractor/under prior notice and/or ii) withdraw the issued testing report/certificates if any.
 6.4 The client shall bear any additional cost incurred on account of work having to be redone or being delayed as a result of late, incorrect or incomplete information provided by or lack of proper cooperation from the client. Even without notice, the maximum price is agreed, TÜV Rheinland shall be entitled to charge extra fees for such additional expense.

7. **Prices**
 7.1 If the scope of performance is not laid down in writing when the order is placed, invoicing shall be based on the price list in effect at the time of invoicing. If no price list is available, invoicing shall be based on the price list of TÜV Rheinland valid at the time of performance.
 7.2 Unless otherwise agreed, work shall be invoiced according to the progress of the work.
 7.3 If the execution of an order extends over more than one month and the value of the contract or the agreed fixed price exceeds €2,500.00 or equivalent value in local currency, TÜV Rheinland may demand payments on account or in instalments.

8. **Payment terms**
 8.1 All invoice amounts shall be due for payment within 30 days of the invoice date without deduction on receipt of the invoice. No discounts and rebates shall be granted.
 8.2 Payments shall be made to the account of TÜV Rheinland as indicated on the invoice, stating the invoice and client numbers.
 8.3 In cases of default of payment, TÜV Rheinland shall be entitled to claim default interest at the applicable short term loan interest rate publicly announced by a reputable commercial bank in the country where TÜV Rheinland is located. At the same time, TÜV Rheinland reserves the right to claim further damages.
 8.4 Should the client default on payment of the invoice despite being granted a reasonable grace period, TÜV Rheinland shall be entitled to cancel the contract, withdraw the certificate, claim damages for non-performance and refuse to continue performance of the contract.
 8.5 The provisions set forth in article 8.4 shall also apply in cases involving returned checks, cessation of payment, commencement of insolvency proceedings against the client's assets or cases in which the commencement of insolvency proceedings has been dismissed due to lack of assets.
 8.6 Objections to the invoices of TÜV Rheinland shall be submitted in writing within two weeks of receipt of the invoice.
 8.7 TÜV Rheinland shall be entitled to demand appropriate advance payments.
 8.8 TÜV Rheinland shall be entitled to raise its fees at the beginning of a month if overheads and/or purchase costs have increased. In this case, TÜV Rheinland shall notify the client in writing of the rise in fees. This notification shall be issued one month prior to the date on which the rise in fees shall come into effect (period of notice of changes in fees). If the rise in fees remains under 5% per contractual year, the client shall not have the right to terminate the contract. If the rise in fees exceeds 5% per contractual year, the client shall be entitled to terminate the contract by the end of the period of notice of changes in fees. If the contract is not terminated, the changed fees shall be deemed to have been agreed upon by the time of the expiry of the notice period.
 8.9 Only legally established and undisputed claims may be offset against claims by TÜV Rheinland.
 8.10 TÜV Rheinland shall have the right at all times to set off any amount due or payable by the client, including but not limited to itself against any fees paid by the client under any contracts, agreement and/or orders/quotations reached with TÜV Rheinland.

9. **Acceptance of work**

9.1 Any part of the work result ordered which is complete in itself may be presented by TÜV Rheinland for acceptance as an instalment. The client shall be obliged to accept it immediately.
 9.2 If acceptance is required or contractually agreed in an individual case, this shall be deemed to have taken place two (2) weeks after completion and handover of the work, unless the client refuses acceptance within this period stating at least one fundamental breach of contract by TÜV Rheinland.
 9.3 The client is not entitled to refuse acceptance due to insignificant breach of contract by TÜV Rheinland.
 9.4 If acceptance is excluded according to the nature of the work performance of TÜV Rheinland, the completion of the work shall take its place.
 9.5 During the follow-up stage of the client may be unable to make use of the time windows provided for within the scope of a certification procedure for auditing/performance by TÜV Rheinland and the certificate is therefore to be withdrawn (e.g. performance of surveillance audits), or if the client ceases or postpones a complete audit during two (2) weeks before the agreed date, TÜV Rheinland is entitled to immediately charge a lump-sum compensation of 10% of the order amount as compensation for expenses. The client reserves the right to prove that TÜV Rheinland has incurred no damage whatsoever or only a considerably lower damage than the above lump sum.
 9.6 Insofar as the client has undertaken in the contract to accept services, TÜV Rheinland shall also be entitled to charge lump-sum damages in the amount of 10% of the order amount as compensation for expenses if the service is not called within one year after the order has been placed. The client reserves the right to prove that the TÜV Rheinland has incurred no damage whatsoever or only a considerably lower damage than the above mentioned lump sum.

10. **Confidentiality**
 10.1 For the purpose of these terms and conditions, "confidential information" means all know-how, trade secrets, documents, images, drawings, expertise, information, data, test results, reports, samples, project documents, contracts and financial information, customer and supplier information, and marketing techniques and other technical, tangible or intangible, that are explicitly transferred or otherwise disclosed by one Party (the "disclosing party") to the other Party (the "receiving party"), in writing or orally, in printed or electronic form. Confidential information is expressly not the client's own collected or otherwise disclosed information. Confidential information (non-personal and not proprietary to the client) within the scope of the provision of services by TÜV Rheinland, TÜV Rheinland is entitled to store, use, further develop and pass on the data contained in the contract with the consent of the client for the purposes of developing new services, improving services and analysing the provision of services. 10.2 The disclosing party shall mark all confidential information disclosed in written form as confidential before passing it onto the receiving party. The same applies to confidential information transmitted by e-mail. If confidential information is disclosed orally, the receiving party shall be appropriately informed in advance and the disclosing party shall confirm in writing the confidentiality nature of the information. The disclosing party shall also ensure that the receiving party and which is created during performance of work by TÜV Rheinland:
 a) may only be used by the receiving party for the purposes of performing the contract, unless expressly otherwise agreed in writing;
 b) may not be copied, distributed, published or otherwise disclosed by the receiving party, unless this is necessary for fulfilling the purpose of the contract or TÜV Rheinland is required to pass on the information in order to comply with legal or governmental regulations or to satisfy judicial court, accreditation bodies or third parties that are involved in the performance of the contract;
 c) must be treated by the receiving party with the same level of confidentiality as the receiving party uses to protect its own confidential information, but never with a lesser level of confidentiality than that which is reasonably required.
 10.4 The receiving party shall disclose any confidential information received from the disclosing party only to those of its employees who need this information to perform the services required for the contract. The receiving party undertakes to obligate these employees to observe the same level of confidentiality as set forth in this confidentiality clause.
 10.5 Information for which the receiving party can furnish proof that:
 a) it was generally known at the time of disclosure or has become general knowledge without violation of confidentiality clauses of the disclosing party;
 b) it was disclosed to the receiving party by a third party entitled to disclose this information; or
 c) the receiving party already possessed this information prior to disclosure by the disclosing party;
 d) the receiving party developed it itself, irrespective of disclosure by the disclosing party, shall not be deemed to constitute "confidential information" as defined in this confidentiality clause.
 10.6 All confidential information shall remain the property of the disclosing party. The receiving party hereby agrees to immediately (i) return all confidential information, including all copies, to the disclosing party, and/or (ii) on request by the disclosing party, to destroy all confidential information, including all copies, and/or (iii) to delete all confidential information stored on the disclosing party's information system. The disclosing party shall be entitled to make file copies of such reports, certificates and confidential information that forms the basis for preparing these reports and certificates in order to evidence the correctness and completeness of the information. The disclosing party is bound by laws, regulations and the requirements of working procedures of TÜV Rheinland.
 10.7 From the start of the contract and for a period of three years after termination or expiry of the contract, the receiving party shall maintain the strict confidentiality of all confidential information and shall not disclose this information to any third party or use it for itself.

11. **Copyrights and rights of use, publications**
 11.1 TÜV Rheinland shall retain all exclusive copyrights in the reports, expert reports/opinions, test reports/results, calculations, presentations, etc. prepared by TÜV Rheinland, unless otherwise agreed by the parties in a separate agreement. As the owner of the copyrights, TÜV Rheinland is free to grant others the right to use the work results for individual or all types of use (right of use).
 11.2 The client receives a simple, unlimited, non-transferable, non-sublicensable right of use to the contents of the work results produced within the scope of the contract, unless otherwise agreed by the parties in a separate agreement. The client may only use such reports, expert reports/opinions, test reports/results, results, calculations, presentations, etc. prepared within the scope of the contract for the purposes of the contract.
 11.3 The transfer of right of use of the generated work results required in clause 11.2 of the GTBC is subject to full payment of the remuneration agreed in favour of TÜV Rheinland.
 11.4 The client may use work results only complete and unshortened. The client may only pass on the work results in full unless TÜV Rheinland has given its prior written consent to the partial passing on of work results.
 11.5 Any publication or duplication of the work results for advertising purposes or any further use of the work results beyond the scope regulated in clause 11.2, and any quotation of the introduction of TÜV Rheinland need the prior written approval of TÜV Rheinland in each individual case. Besides, the client ensures that the aforesaid use shall comply with relevant applicable laws, regulations and relevant rules (including but not limited to specific applicable testing and certification rules, etc.).
 11.6 TÜV Rheinland reserves the right to give approval according to clause 11.5 at any time without stating reasons. In this case, the client is obliged to stop the transfer of the work results immediately at his own expense and, as far as possible, to withdraw publications.
 11.7 The consent of TÜV Rheinland to publication of the work results does not entitle the client to use the corporate logo, corporate design or test/certification mark of TÜV Rheinland.

12. **Liability of TÜV Rheinland**
 12.1 In respect of the legal basis, to the fullest extent permitted by applicable law, in the event of a breach of contractual obligations or tort, the liability of TÜV Rheinland for all damages, losses and reimbursement of expenses caused by TÜV Rheinland, its legal representatives and/or employees shall be limited to: (i) in the case of a contract with a fixed overall fee, three times the overall fee for the entire contract; (ii) in the case of a contract for an annually recurring services, the agreed annual fee; (iii) in the case of a contract expressly charged on a time and material basis, a maximum of 20,000 Euro or equivalent amount in local currency; and (iv) in the case of a framework agreement that provides for the possibility of placing individual orders, three times the fee for the individual order under which the damages or losses have occurred. Notwithstanding the above, in the event that the total and accumulated liability calculated according to the foregoing provisions exceeds 2.5 Million Euro or equivalent amount in local currency, the total and accumulated liability of TÜV Rheinland shall be only limited to and shall not exceed the said 2.5 Million Euro or equivalent amount in local currency. The limitation of liability according to article 12.1 above shall not apply to damages and/or losses caused by malice, intent or gross negligence on the part of TÜV Rheinland or its active agents. Such limitation shall not apply to damages for a person's death, physical injury or illness.
 12.3 In cases involving a fundamental breach of contract, TÜV Rheinland will be liable even where minor negligence is involved. For this purpose, a "fundamental breach" is a breach of a material contractual obligation, the performance of which permits the due performance of the contract. Any claim for damages for a fundamental breach of contract shall be limited to the amount of damages reasonably foreseeable as a possible consequence of such breach of contract at the time of the breach (reasonably foreseeable damages), unless any of the circumstances described in article 12.2 apply.
 12.4 TÜV Rheinland shall not be liable for the acts of the personnel made available by the client to support TÜV Rheinland in the performance of its services under the contract, unless such personnel made available is regarded as vicarious agent of TÜV Rheinland. If TÜV Rheinland is not liable for the acts of the personnel made available by the client under the foregoing provision, the client shall indemnify TÜV Rheinland against any claims made by third parties arising from or in connection with such personnel's acts.
 12.5 Unless otherwise contractually agreed in writing, TÜV Rheinland shall only be liable under the contract to the client.
 12.6 The limitation periods for claims for damages shall be based on statutory provisions.
 12.7 This of the provisions of this article 12 changes the burden of proof to the disadvantage of the client.

13. **Export control**
 13.1 When passing on the services provided by TÜV Rheinland or parts thereof to third parties in Greater China or other regions, the client must comply with the respectively applicable regulations of national and international export control law.
 13.2 The performance of a contract with the client is subject to the proviso that there are no obstacles to performance due to national or international foreign trade legislations or embargos and/or sanctions. In the event of a violation, TÜV Rheinland shall be entitled to terminate the contract with immediate effect and the client shall compensate for the losses incurred thereof by TÜV Rheinland.

14. **Data protection notice**

The client understands and agrees that TÜV Rheinland processes personal data (including but not limited to personal information) of the client and its related parties (including but not limited to the supplier of the client) for the purpose of fulfilling this contract. The client confirms that it has obtained the prior consent of the data subject, which entitles TÜV Rheinland to access, use, or process the personal data that the client collected or processed by itself and transferred to TÜV Rheinland for certain services. We may also process sensitive personal data. TÜV Rheinland will use and process the data in accordance with the relevant legal basis. If any personal data has to be disclosed or transferred to a third party or any overseas party outside of the district in which the personal data was collected, the client also confirms that it has obtained the prior consent of the data subject. TÜV Rheinland will carry out cross-border data transmission and protect the data in compliance with the privacy and personal data security related laws and regulations in China and the local country. TÜV Rheinland will take measures to avoid any leakage, abuse, manipulation, damage or unauthorized access of personal data. The personal data will be deleted immediately as soon as a corresponding reason for deletion arises. Data subjects may exercise the following rights: right of information, right of decision, right of rectification, right of deletion, right of processing limitation, right of objection, right of data transferability. In addition, persons concerned by the data processing have the right to revoke their consent at any time with effect for the future, as well as the right to file a complaint with the competent data protection supervisory authority. For further details on the processing of personal data by TÜV Rheinland as the person responsible or contract processor, please refer to the respective data protection information. You can contact the Group Data Protection Officer of TÜV Rheinland by e-mail at dataprotection@tuv.com or by post at the following address: TÜV Rheinland AG, c/o Group Data Protection Officer, Am Grauen Stein, 51105 Cologne, Germany.

15. **Retention of test material and documentation**
 15.1 The test samples submitted by the client to TÜV Rheinland for testing will be scrapped following testing or will be returned to the client at the client's expense. The only exceptions are test samples, which are placed in storage on the basis of statutory regulations or of another agreement with the client.
 15.2 Changes apply to the test samples are stored at the premises of TÜV Rheinland. The cost of placing a test sample into storage will be disclosed to the client in the quotation.
 15.3 If reference samples or documentations are given to the client to be placed in storage at their premises or reference samples or documentations must be made available to TÜV Rheinland upon request promptly and free of charge. If the client, in response to such a request, is incapable of making available the reference samples and/or documentation, any liability claims for material and pecuniary damage caused by the client and the respective test and certification that is brought forward by the client against TÜV Rheinland shall be voided.
 15.4 The retention period for the documentation shall be 10 (ten) years after the expiry of the test mark certificate or the applicable legal requirements for EU/EEC certificates of conformity and GS mark certificates.
 15.5 The costs of the handover and dispatch of the test samples for storage on the client's premises are borne by the client. TÜV Rheinland will be liable for the loss of test samples or reference samples from the laboratories or warehouses of TÜV Rheinland only in case of gross negligence.

16. **Termination of the contract**
 16.1 Notwithstanding clause 3.3 of the GTBC, TÜV Rheinland and the client are entitled to terminate the contract in its entire or in part, in the case of a material breach of one of the conditions of the contract and parts of the contract individually and independently of the continuation of the remaining services with six (6) months' notice to the end of the contractually agreed term. The notice period shall be shortened to six (6) weeks in case TÜV Rheinland is prevented from performing the service due to a force majeure event.
 16.2 For good cause, TÜV Rheinland may consider giving a written notice to the client to terminate the contract in its entire or in part, in the case of:
 a) the client does not immediately notify TÜV Rheinland of changes in the conditions within the contract which are relevant for certification or signs of such changes;
 b) the client misses the certificate or certificate of approval or in violation of the contract;
 c) in the event of several consecutive delays in payment (at least three times);
 d) a substantial deterioration of the financial circumstances of the client occurs and as a result the payment claims of TÜV Rheinland under the contract are considerably endangered and TÜV Rheinland cannot reasonably be expected to continue the contractual relationship;
 e) in the event of any serious misrepresentation, be it intentional fraud or grossly negligent behavior of the managers, employees or agents of the client.
 16.3 If TÜV Rheinland, for reasons beyond its control, is temporarily or finally not able or entitled to continue or finalize the performance of the service, e.g. in case of force majeure, government interference, sanctions, loss of accreditation or notification, or other reasons, the event of termination by written notice of TÜV Rheinland for good cause, TÜV Rheinland shall be entitled to a lump-sum claim for damages against the client if the conditions of a claim for damages exist. In this case, the client shall owe 15% of the remuneration to be paid under the contract for the contract term as lump-sum compensation. The client reserves the right to prove that there is no damage or a considerably lower damage. TÜV Rheinland reserves the right to prove a considerably higher damage in individual cases.
 16.4 The event of termination by written notice of TÜV Rheinland for good cause, TÜV Rheinland shall be entitled to a lump-sum claim for damages against the client if the client has not been able to make use of the time windows for auditing service provision provided by TÜV Rheinland within the scope of a certification procedure and the certificate therefore has to be withdrawn (for example during the performance of monitoring audits). Clause 16.3 applies accordingly.

17. **Force Majeure**
 17.1 "Force Majeure" means the occurrence of an event or circumstance that prevents or impedes a Party from performing one or more of its contractual obligations under the contract, if and to the extent that the Party is unable to prevent or avoid such event or circumstance and (b) that it could not reasonably have been foreseen at the time of the conclusion of the contract; and (c) that the effects of the impediment could not reasonably have been avoided or overcome by the Party.
 17.2 In the absence of proof to the contrary, the following events affecting a Party shall be presumed to fulfil conditions (a) and (b) under paragraph 1 of this Clause: (i) war (whether declared or not), hostilities, invasion, act of foreign enemies, extensive military mobilization, civil war, riot, rebellion and revolution, military or usurped power, insurrection, act of terrorism, sabotage or piracy; (ii) currency and trade restriction, embargo, sanction; (iv) act of authority whether lawful or unlawful, compliance with any law or governmental order; (v) requisition, seizure of works, requisition, nationalization; (vi) plague, epidemic, natural disaster or extreme natural event; (vii) explosion, fire, destruction of equipment, prolonged break-down of transport, telecommunication, information system, power supply; (viii) general labor disturbance such as boycott, strike and lock-out, go-slow, occupation of factories and premises.
 17.3 The Party successfully invoking this Clause is relieved from its duty to perform its obligations under the contract and from any liability and/or claim from any other contractual remedy for breach of contract, from the time at which the impediment causes inability to perform, provided that the notice thereof is given without delay. If notice thereof is not given without delay, the relief is effective from the time at which notice thereof reaches the other Party. Where the effect of the impediment or event invoked is temporary, the above consequences shall apply only as long as the impediment invoked impedes performance by the affected Party. Where the duration of the impediment invoked has the effect of substantially depriving the contracting Parties of what they were reasonably entitled to expect under the contract, either Party has the right to terminate the contract by notification within a reasonable period to the other Party. Unless otherwise agreed, the Parties expressly agree that the contract may be terminated by either Party if the duration of the impediment exceeds 120 days.

18. **Hardship**
 18.1 The Parties are bound to perform their contractual duties even if events have rendered performance more onerous than could reasonably have been anticipated at the time of the conclusion of the contract.
 18.2 Notwithstanding paragraph 1 of this Clause, where a Party proves that:
 (a) The continued performance of its contractual duties has become excessively onerous due to an event beyond its reasonable control which could not reasonably have been expected to have taken into account at the time of the conclusion of the contract; and that
 (b) it could not reasonably have avoided or overcome the event or its consequences, the Parties are bound, within a reasonable time of the invocation of this Clause, to negotiate alternative contractual terms which reasonably allow to overcome the consequences of the event.
 18.3 Where Clause 18.2 applies, but where the Parties have been unable to agree alternative contractual terms as provided in that paragraph, the Party invoking this Clause is entitled to terminate the contract, but cannot request adaptation by the judge or arbitrator without the agreement of the other Party.

19. **Partial invalidity, written form, place of jurisdiction and dispute resolution**
 19.1 All amendments and supplements must be in writing in order to be effective. This also applies to amendments and supplements to this clause 19.1.
 19.2 Should one or several of the provisions under the contract and/or these terms and conditions be or become ineffective, the contracting parties shall replace the invalid provision with a legally valid provision that comes closest to the content of the invalid provision in legal and commercial terms.
 19.3 Unless otherwise stipulated in the contract, the governing law of the contract and these terms and conditions shall be chosen following the rules as below:
 (a) If TÜV Rheinland in question is legally registered and existing in the People's Republic of China, the contracting parties hereby agree that the contract and these terms and conditions shall be governed by the laws of the People's Republic of China.
 (b) If TÜV Rheinland in question is legally registered and existing in Taiwan, the contracting parties hereby agree that the contract and these terms and conditions shall be governed by the laws of Taiwan.
 (c) If TÜV Rheinland in question is legally registered and existing in Hong Kong, the contracting parties hereby agree that the contract and these terms and conditions shall be governed by the laws of Hong Kong.
 19.4 Any dispute in connection with the contract and these terms and conditions or the execution thereof shall be settled through negotiation.
 19.5 Unless otherwise stipulated in the contract, if no settlement or no agreement in respect of the extension of the negotiation period can be reached within two months of the arising of the dispute, the dispute shall be submitted:
 (a) in the case of TÜV Rheinland in question being legally registered and existing in the People's Republic of China, to China International Economic and Trade Arbitration Commission (CIETAC) to be settled through arbitration under the CIETAC in force when the arbitration is submitted. The arbitration shall take place in Beijing, Shanghai, Shenzhen or Chongqing as appropriately chosen by the claiming party.
 (b) in the case of TÜV Rheinland in question being legally registered and existing in Taiwan, to Chinese Arbitration Association, Taipei to be arbitrated in accordance with its then current Rules of Arbitration. The arbitration shall take place in Taipei.
 (c) in the case of TÜV Rheinland in question being legally registered and existing in Hong Kong, to Hong Kong International Arbitration Centre (HKIAC) to be settled by arbitration under the HKIAC Administered Arbitration Rules in force when the Notice of Arbitration is submitted in accordance with these terms and conditions. The arbitration shall take place in Hong Kong. The decision of the relevant arbitration tribunal shall be final and binding on both parties. The arbitration fee shall be borne by the losing party.