

Verification Report No.: SHAEC23011020001

Date: Dec 13, 2023

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Client Name: Risen Energy Co., Ltd.

Client Address: Meilin, Ninghai, 315609 Ningbo, Zhejiang

Sample Name: Photovoltaic (PV) module(s)

Tested Basic Model No.: RSM132-8-665BMDG

Client Ref. Information: RSM132-8-660BMDG, RSM132-8-655BMDG, RSM132-8-665M, RSM132-8-660M, RSM132-8-655M

The above sample(s) and information were provided by the client.

SGS Job No.: SP23-011771

Sample Receiving Date: Jul 25, 2023

Verification Period: Jul 25, 2023 ~ Dec 07, 2023

Verification Requested: With reference to RoHS Directive (EU) 2015/863 amending 2011/65/EU.

Verification Method(s): Please refer to next page(s).

Verification Result(s): Please refer to next page(s).

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Jessica Chen

Jessica Chen

Approved Signatory

scan to see the report



992FDC02



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Photo of Submitted Sample



Verification Method(s):

1. With reference to IEC 62321-2:2021, disassembly and disjointment were performed for the submitted samples.
2. With reference to IEC 62321-1:2013, tests were performed for the samples indicated by the photos in this report
 - (1) With reference to IEC 62321-3-1:2013, screening by EDXRF spectroscopy.
 - (2) Wet chemical test method: With reference to IEC 62321-4:2013+A1:2017, IEC62321-5:2013, IEC 62321-7-1:2015, IEC 62321-7-2:2017, ISO 17075-1:2017, IEC 62321-6:2015, IEC62321-8:2017, ISO 18219-2:2021, ISO 22818:2021 and SGS In-House method, analyzed by ICP-OES, UV-Vis, GC-MS, GC-NCI-MS, GC-ECD and LC-MS.



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Verification Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	SHA23-0110200-0001.C001	Black/Silvery adhesive plastic (label)
SN2	A2	SHA23-0110200-0001.C002	White adhesive
SN3	A3	SHA23-0110200-0001.C003	Black plastic (junction box)
SN4	A4	SHA23-0110200-0001.C004	Black plastic (junction box)
SN5	A5	SHA23-0110200-0001.C005	Black IC (body)
SN6	A6	SHA23-0110200-0001.C006	Silvery metal (connecting piece)
SN7	A7	SHA23-0110200-0001.C007	Red rubber (sealed ring)
SN8	A8	SHA23-0110200-0001.C008	Black plastic (joint)
SN9	A9	SHA23-0110200-0001.C009	Black plastic (boot)
SN10	A10	SHA23-0110200-0001.C010	Silvery metal (buckle)
SN11	A11	SHA23-0110200-0001.C011	Silvery metal (terminal)
SN12	A12	SHA23-0110200-0001.C012	Silvery metal (buckle)
SN13	A13	SHA23-0110200-0001.C013	Red rubber (boot)
SN14	A14	SHA23-0110200-0001.C014	Black plastic (boot)
SN15	A15	SHA23-0110200-0001.C015	Black plastic (joint)
SN16	A16	SHA23-0110200-0001.C016	Black/White adhesive plastic (label)
SN17	A17	SHA23-0110200-0001.C017	Transparent adhesive
SN18	A18	SHA23-0110200-0001.C018	Silvery metal (framework)
SN19	A19	SHA23-0110200-0001.C019.C001	Silvery metal
SN20	A20	SHA23-0110200-0001.C020	Blue sensitive plate (body) (photovoltaic panel)
SN21	A21	SHA23-0110200-0001.C021	Black/Silvery adhesive plastic (label)
SN22	A22	SHA23-0110200-0001.C022	Black/White adhesive plastic (label)
SN23	A23	SHA23-0110200-0001.C023	White adhesive
SN24	A24	SHA23-0110200-0001.C024	Transparent adhesive
SN25	A25	SHA23-0110200-0001.C025	Black plastic (junction box)
SN26	A26	SHA23-0110200-0001.C026	Black plastic (junction box)
SN27	A27	SHA23-0110200-0001.C027.C001	Black IC (body)
SN28	A28	SHA23-0110200-0001.C028	Silvery metal (connecting piece)
SN29	A29	SHA23-0110200-0001.C029	Red rubber (sealed ring)
SN30	A30	SHA23-0110200-0001.C030	Black plastic (joint)
SN31	A31	SHA23-0110200-0001.C031	Black plastic (boot)
SN32	A32	SHA23-0110200-0001.C032	Red rubber (boot)
SN33	A33	SHA23-0110200-0001.C033	Silvery metal (buckle)
SN34	A34	SHA23-0110200-0001.C034	Silvery metal (terminal)
SN35	A35	SHA23-0110200-0001.C035	Silvery metal (buckle)
SN36	A36	SHA23-0110200-0001.C036	Black plastic (boot)
SN37	A37	SHA23-0110200-0001.C037	Black plastic (joint)
SN38	A38	SHA23-0110200-0001.C038	Silvery metal (framework)
SN39	A39	SHA23-0110200-0001.C039.C001	Silvery metal
SN40	A40	SHA23-0110200-0001.C040	Blue sensitive plate (body) (photovoltaic panel)
SN41	A41	SHA23-0110200-0001.C041	Black/Silvery adhesive plastic (label)
SN42	A42	SHA23-0110200-0001.C042	Black/White adhesive plastic (label)
SN43	A43	SHA23-0110200-0001.C043	White adhesive



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SN ID	Sample No.	SGS Sample ID	Description
SN44	A44	SHA23-0110200-0001.C044	Transparent adhesive
SN45	A45	SHA23-0110200-0001.C045	Black plastic (junction box)
SN46	A46	SHA23-0110200-0001.C046	Black plastic (junction box)
SN47	A47	SHA23-0110200-0001.C047	Silvery metal
SN48	A48	SHA23-0110200-0001.C048	Black IC (body)
SN49	A49	SHA23-0110200-0001.C049.C001	Silvery metal (connecting piece)
SN50	A50	SHA23-0110200-0001.C050	Red rubber (sealed ring)
SN51	A51	SHA23-0110200-0001.C051	Black plastic (joint)
SN52	A52	SHA23-0110200-0001.C052	Red rubber (boot)
SN53	A53	SHA23-0110200-0001.C053	Black plastic (boot)
SN54	A54	SHA23-0110200-0001.C054	Silvery metal (buckle)
SN55	A55	SHA23-0110200-0001.C055	Silvery metal (terminal)
SN56	A56	SHA23-0110200-0001.C056	Silvery metal (buckle)
SN57	A57	SHA23-0110200-0001.C057	Black plastic (joint)
SN58	A58	SHA23-0110200-0001.C058	Black plastic
SN59	A59	SHA23-0110200-0001.C059	Silvery metal (framework)
SN60	A60	SHA23-0110200-0001.C060.C001	Silvery metal
SN61	A61	SHA23-0110200-0001.C061	Blue sensitive plate (body) (photovoltaic panel)
SN62	A62	SHA23-0110200-0001.C062	Black/Silvery adhesive plastic (label)
SN63	A63	SHA23-0110200-0001.C063	Black/White adhesive plastic (label)
SN64	A64	SHA23-0110200-0001.C064	White adhesive
SN65	A65	SHA23-0110200-0001.C065	Transparent adhesive
SN66	A66	SHA23-0110200-0001.C066	Black plastic (junction box)
SN67	A67	SHA23-0110200-0001.C067	Black plastic (junction box)
SN68	A68	SHA23-0110200-0001.C068.C001	Black IC (body)
SN69	A69	SHA23-0110200-0001.C069	Silvery metal (connecting piece)
SN70	A70	SHA23-0110200-0001.C070	Red rubber (sealed ring)
SN71	A71	SHA23-0110200-0001.C071	Black plastic (joint)
SN72	A72	SHA23-0110200-0001.C072	Red rubber (boot)
SN73	A73	SHA23-0110200-0001.C073	Black plastic (boot)
SN74	A74	SHA23-0110200-0001.C074	Silvery metal (buckle)
SN75	A75	SHA23-0110200-0001.C075	Silvery metal (terminal)
SN76	A76	SHA23-0110200-0001.C076	Silvery metal (buckle)
SN77	A77	SHA23-0110200-0001.C077	Black plastic (boot)
SN78	A78	SHA23-0110200-0001.C078	Black plastic (joint)
SN79	A79	SHA23-0110200-0001.C079	Silvery metal (framework)
SN80	A80	SHA23-0110200-0001.C080.C001	Silvery metal
SN81	A81	SHA23-0110200-0001.C081	Blue sensitive plate (body) (photovoltaic panel)
SN82	A82	SHA23-0110200-0001.C082	Black/Silvery adhesive plastic (label)
SN83	A83	SHA23-0110200-0001.C083	Black/White adhesive plastic (label)
SN84	A84	SHA23-0110200-0001.C084	White adhesive
SN85	A85	SHA23-0110200-0001.C085	Transparent adhesive
SN86	A86	SHA23-0110200-0001.C086	Black plastic (junction box)



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SN ID	Sample No.	SGS Sample ID	Description
SN87	A87	SHA23-0110200-0001.C087	Black plastic (junction box)
SN88	A88	SHA23-0110200-0001.C088	Silvery metal (connecting piece)
SN89	A89	SHA23-0110200-0001.C089.C001	Black IC (body)
SN90	A90	SHA23-0110200-0001.C090	Red rubber (sealed ring)
SN91	A91	SHA23-0110200-0001.C091	Black plastic (joint)
SN92	A92	SHA23-0110200-0001.C092	Red rubber (boot)
SN93	A93	SHA23-0110200-0001.C093	Black plastic (boot)
SN94	A94	SHA23-0110200-0001.C094	Silvery metal (buckle)
SN95	A95	SHA23-0110200-0001.C095	Silvery metal (terminal)
SN96	A96	SHA23-0110200-0001.C096	Silvery metal (buckle)
SN97	A97	SHA23-0110200-0001.C097	Black plastic (boot)
SN98	A98	SHA23-0110200-0001.C098	Black plastic (joint)
SN99	A99	SHA23-0110200-0001.C099	Silvery metal (framework)
SN100	A100	SHA23-0110200-0001.C100.C001	Silvery metal
SN101	A101	SHA23-0110200-0001.C101.C001	Blue sensitive plate (body) (photovoltaic panel)
SN102	A102	SHA23-0110200-0001.C102	Black/Silvery adhesive plastic (label)
SN103	A103	SHA23-0110200-0001.C103.C001	White adhesive plastic (label)
SN104	A104	SHA23-0110200-0001.C104	White adhesive
SN105	A105	SHA23-0110200-0001.C105	Transparent adhesive
SN106	A106	SHA23-0110200-0001.C106	Black plastic (junction box)
SN107	A107	SHA23-0110200-0001.C107	Black plastic (junction box)
SN108	A108	SHA23-0110200-0001.C108	Silvery metal (connecting piece)
SN109	A109	SHA23-0110200-0001.C109	Black IC (body)
SN110	A110	SHA23-0110200-0001.C110	Red rubber (sealed ring)
SN111	A111	SHA23-0110200-0001.C111	Black plastic (joint)
SN112	A112	SHA23-0110200-0001.C112	Red rubber (boot)
SN113	A113	SHA23-0110200-0001.C113	Black plastic (boot)
SN114	A114	SHA23-0110200-0001.C114	Silvery metal (buckle)
SN115	A115	SHA23-0110200-0001.C115	Silvery metal (terminal)
SN116	A116	SHA23-0110200-0001.C116	Silvery metal (buckle)
SN117	A117	SHA23-0110200-0001.C117	Black plastic (boot)
SN118	A118	SHA23-0110200-0001.C118	Black plastic (joint)
SN119	A119	SHA23-0110200-0001.C119	Silvery metal (framework)
SN120	A120	SHA23-0110200-0001.C120.C001	Silvery metal
SN121	A121	SHA23-0110200-0001.C121	Blue sensitive plate (body) (photovoltaic panel)



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Verification Result(s):

In accordance with the result of material risk assessment, the following disjointed parts in the submitted sample have been verified. (Unless otherwise specified, the unit is mg/kg).

Test Item(s)	A1	A2	A3	A4	A5	A6	A7	A8
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Pb	BL	BL	BL	BL	BL	47	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
TBBP-A	BL	BL	BL	BL	BL	---	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBBs	BL	BL	BL	BL	BL	---	BL	BL
PBDEs	BL	BL	BL	BL	BL	---	BL	BL
MCCPs	BL	BL	BL	ND	BL	---	ND	BL
DBP	BL	BL	BL	BL	BL	---	BL	BL
BBP	BL	BL	BL	BL	BL	---	BL	BL
DEHP	BL	BL	BL	BL	BL	---	BL	BL
DIBP	BL	BL	BL	BL	BL	---	BL	BL

Test Item(s)	A9	A10	A11	A12	A13	A14	A15	A16
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
TBBP-A	BL	---	---	---	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBBs	BL	---	---	---	BL	BL	BL	BL
PBDEs	BL	---	---	---	BL	BL	BL	BL
MCCPs	BL	---	---	---	ND	BL	BL	BL
DBP	BL	---	---	---	BL	BL	BL	BL
BBP	BL	---	---	---	BL	BL	BL	BL
DEHP	BL	---	---	---	BL	BL	BL	BL
DIBP	BL	---	---	---	BL	BL	BL	BL

Test Item(s)	A17	A18	A19	A20	A21	A22	A23	A24
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Pb	BL	BL	57	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
TBBP-A	BL	---	---	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBBs	BL	---	---	BL	BL	BL	BL	BL
PBDEs	BL	---	---	BL	BL	BL	BL	BL
MCCPs	BL	---	---	BL	BL	BL	BL	BL
DBP	BL	---	---	BL	BL	BL	BL	BL
BBP	BL	---	---	BL	BL	BL	BL	BL
DEHP	BL	---	---	BL	BL	BL	BL	BL
DIBP	BL	---	---	BL	BL	BL	BL	BL

Test Item(s)	A25	A26	A27	A28	A29	A30	A31	A32
Cd	BL	BL	BL	BL	BL	BL	BL	BL



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Test Item(s)	A25	A26	A27	A28	A29	A30	A31	A32
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
TBBP-A	BL	BL	BL	---	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBBs	BL	BL	BL	---	BL	BL	BL	BL
PBDEs	BL	BL	BL	---	BL	BL	BL	BL
MCCPs	BL	ND	BL	---	ND	BL	BL	ND
DBP	BL	BL	ND	---	BL	BL	BL	BL
BBP	BL	BL	ND	---	BL	BL	BL	BL
DEHP	BL	BL	ND	---	BL	BL	BL	BL
DIBP	BL	BL	ND	---	BL	BL	BL	BL

Test Item(s)	A33	A34	A35	A36	A37	A38	A39	A40
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Pb	BL	BL	BL	BL	BL	BL	57	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
TBBP-A	---	---	---	BL	BL	---	---	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBBs	---	---	---	BL	BL	---	---	BL
PBDEs	---	---	---	BL	BL	---	---	BL
MCCPs	---	---	---	ND	BL	---	---	BL
DBP	---	---	---	BL	BL	---	---	BL
BBP	---	---	---	BL	BL	---	---	BL
DEHP	---	---	---	BL	BL	---	---	BL
DIBP	---	---	---	BL	BL	---	---	BL

Test Item(s)	A41	A42	A43	A44	A45	A46	A47	A48
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Pb	BL	BL	BL	BL	BL	BL	29	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
TBBP-A	BL	BL	BL	BL	BL	BL	---	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBBs	BL	BL	BL	BL	BL	BL	---	BL
PBDEs	BL	BL	BL	BL	BL	BL	---	BL
MCCPs	BL	BL	BL	BL	BL	BL	---	BL
DBP	BL	BL	BL	BL	BL	BL	---	BL
BBP	BL	BL	BL	BL	BL	BL	---	BL
DEHP	BL	BL	BL	BL	BL	BL	---	BL
DIBP	BL	BL	BL	BL	BL	BL	---	BL

Test Item(s)	A49	A50	A51	A52	A53	A54	A55	A56
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
TBBP-A	---	BL	BL	BL	BL	---	---	---
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL



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Test Item(s)	A49	A50	A51	A52	A53	A54	A55	A56
PBBs	---	BL	BL	BL	BL	---	---	---
PBDEs	---	BL	BL	BL	BL	---	---	---
MCCPs	---	BL	BL	ND	BL	---	---	---
DBP	---	BL	BL	BL	BL	---	---	---
BBP	---	BL	BL	BL	BL	---	---	---
DEHP	---	BL	BL	BL	BL	---	---	---
DIBP	---	BL	BL	BL	BL	---	---	---

Test Item(s)	A57	A58	A59	A60	A61	A62	A63	A64
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Pb	BL	BL	BL	57	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
TBBP-A	BL	BL	---	---	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBBs	BL	BL	---	---	BL	BL	BL	BL
PBDEs	BL	BL	---	---	BL	BL	BL	BL
MCCPs	BL	---	---	---	BL	BL	BL	BL
DBP	BL	BL	---	---	BL	BL	BL	BL
BBP	BL	BL	---	---	BL	BL	BL	BL
DEHP	BL	BL	---	---	BL	BL	BL	BL
DIBP	BL	BL	---	---	BL	BL	BL	BL

Test Item(s)	A65	A66	A67	A68	A69	A70	A71	A72
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
TBBP-A	BL	BL	BL	BL	---	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBBs	BL	BL	BL	BL	---	BL	BL	BL
PBDEs	BL	BL	BL	BL	---	BL	BL	BL
MCCPs	ND	BL	ND	BL	---	ND	BL	ND
DBP	BL	BL	BL	ND	---	BL	BL	BL
BBP	BL	BL	BL	ND	---	BL	BL	BL
DEHP	BL	BL	BL	ND	---	BL	BL	BL
DIBP	BL	BL	BL	ND	---	BL	BL	BL

Test Item(s)	A73	A74	A75	A76	A77	A78	A79	A80
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Pb	BL	BL	BL	BL	BL	BL	BL	57
Hg	BL	BL	BL	BL	BL	BL	BL	BL
TBBP-A	BL	---	---	---	BL	BL	---	---
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBBs	BL	---	---	---	BL	BL	---	---
PBDEs	BL	---	---	---	BL	BL	---	---
MCCPs	BL	---	---	---	BL	BL	---	---
DBP	BL	---	---	---	BL	BL	---	---



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Test Item(s)	A73	A74	A75	A76	A77	A78	A79	A80
BBP	BL	---	---	---	BL	BL	---	---
DEHP	BL	---	---	---	BL	BL	---	---
DIBP	BL	---	---	---	BL	BL	---	---

Test Item(s)	A81	A82	A83	A84	A85	A86	A87	A88
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
TBBP-A	BL	BL	BL	BL	BL	BL	BL	---
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBBs	BL	BL	BL	BL	BL	BL	BL	---
PBDEs	BL	BL	BL	BL	BL	BL	BL	---
MCCPs	BL	BL	BL	BL	BL	BL	BL	---
DBP	BL	BL	BL	BL	BL	BL	BL	---
BBP	BL	BL	BL	BL	BL	BL	BL	---
DEHP	BL	BL	BL	BL	BL	BL	BL	---
DIBP	BL	BL	BL	BL	BL	BL	BL	---

Test Item(s)	A89	A90	A91	A92	A93	A94	A95	A96
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
TBBP-A	BL	BL	BL	BL	BL	---	---	---
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBBs	BL	BL	BL	BL	BL	---	---	---
PBDEs	BL	BL	BL	BL	BL	---	---	---
MCCPs	BL	BL	BL	ND	ND	---	---	---
DBP	ND	BL	BL	BL	BL	---	---	---
BBP	ND	BL	BL	BL	BL	---	---	---
DEHP	ND	BL	BL	BL	BL	---	---	---
DIBP	ND	BL	BL	BL	BL	---	---	---

Test Item(s)	A97	A98	A99	A100	A101	A102	A103	A104
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Pb	BL	BL	BL	57	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
TBBP-A	BL	BL	---	---	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBBs	BL	BL	---	---	BL	BL	BL	BL
PBDEs	BL	BL	---	---	BL	BL	BL	BL
MCCPs	BL	BL	---	---	BL	BL	BL	BL
DBP	BL	BL	---	---	ND	BL	ND	BL
BBP	BL	BL	---	---	ND	BL	ND	BL
DEHP	BL	BL	---	---	ND	BL	ND	BL
DIBP	BL	BL	---	---	ND	BL	ND	BL



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Test Item(s)	A105	A106	A107	A108	A109	A110	A111	A112
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Pb	BL	BL	BL	13	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
TBBP-A	BL	BL	BL	---	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBBs	BL	BL	BL	---	BL	BL	BL	BL
PBDEs	BL	BL	BL	---	BL	BL	BL	BL
MCCPs	ND	BL	BL	---	BL	ND	BL	ND
DBP	BL	BL	BL	---	BL	BL	BL	BL
BBP	BL	BL	BL	---	BL	BL	BL	BL
DEHP	BL	BL	BL	---	BL	BL	BL	BL
DIBP	BL	BL	BL	---	BL	BL	BL	BL

Test Item(s)	A113	A114	A115	A116	A117	A118	A119	A120
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Pb	BL	BL	BL	BL	BL	BL	BL	57
Hg	BL	BL	BL	BL	BL	BL	BL	BL
TBBP-A	BL	---	---	---	BL	BL	---	---
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBBs	BL	---	---	---	BL	BL	---	---
PBDEs	BL	---	---	---	BL	BL	---	---
MCCPs	BL	---	---	---	BL	BL	---	---
DBP	BL	---	---	---	BL	BL	---	---
BBP	BL	---	---	---	BL	BL	---	---
DEHP	BL	---	---	---	BL	BL	---	---
DIBP	BL	---	---	---	BL	BL	---	---

Test Item(s)	A121
Cd	BL
Pb	BL
Hg	BL
TBBP-A	BL
Cr(VI)▼	BL
PBBs	BL
PBDEs	BL
MCCPs	BL
DBP	BL
BBP	BL
DEHP	BL
DIBP	BL



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Notes:

(1) Interpretation of screening results by X-ray fluorescence spectrometry (XRF):

(a) Screening limits in mg/kg for regulated elements in various matrices according to IEC 62321-1:2013 Annex A as below table.

Element	Polymer	Metal	Composite Materials
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Pb	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Hg	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Br	$BL \leq (300-3\sigma) < X$	Not applicable	$BL \leq (250-3\sigma) < X$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

(b) If the maximum allowed level restricts PBB/PBDE and Cr(VI) rather than Br and Cr, the exceptions are the XRF determinations of Br and Cr. If the quantitative results for the elements Br and/or are higher than the limit (for Br calculated based on the stoichiometry of Br in the most common congeners of PBB/PBDE), the sample is "inconclusive".

(c) Results are obtained by EDXRF for primary screening, LOD = Limit of Detection, BL = Below Limit, OL = Over Limit, IN (The symbol X marks the region) = Inconclusive, where further investigation is necessary, and further chemical testing by ICP-OES (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs/PBDEs) are recommended to be performed.

(d) The EDXRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.

(2) Screening results of Phthalates (PHTH) are for primary screening, and further chemical testing by GC-MS (for DBP, BBP, DEHP and DIBP) are recommended to be performed if the concentration exceeds the below warning value (unit: mg/kg).

Test Items	CAS No.	Polymer/ Composite Materials
Dibutyl Phthalate (DBP)	84-74-2	$BL \leq 600 < X$
Benzylbutyl Phthalate (BBP)	85-68-7	$BL \leq 600 < X$
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	$BL \leq 600 < X$
Diisobutyl Phthalate (DIBP)	84-69-5	$BL \leq 600 < X$

(3) (a) For the restricted substance, the result of Alkanes C14-C17, chloro (medium- chain chlorinated paraffins) (MCCPs), using EDXRF to test the total chlorine (Cl) content or screening chemical testing for primary screening.

For the restricted substance, the result of Tetrabromobisphenol A (TBBP-A), using EDXRF to test the total bromine (Br) content or screening chemical testing for primary screening.

(b) Results are obtained for primary screening, and further wet chemical testing by GC-NCI-MS / GC-ECD / GC-MS / LC-MS for MCCPs and TBBP-A are recommended to be performed if the concentration exceeds the below warning value (unit: mg/kg).

Test Items	CAS No.	Polymer	Composite Materials
MCCPs	85535-85-9 and others	Cl: $BL \leq (400-3\sigma) < X$ or MCCPs: $BL \leq 600 < X$	Cl: $BL \leq (400-3\sigma) < X$ or MCCPs: $BL \leq 600 < X$
TBBP-A	79-94-7	Br: $BL \leq (300-3\sigma) < X$ or TBBP-A: $BL \leq 600 < X$	Br: $BL \leq (250-3\sigma) < X$ or TBBP-A: $BL \leq 600 < X$

(4) Interpretation of results by chemical tests:

(a) mg/kg = 0.0001%, MDL=Method detection Limit, ND = Not Detected (<MDL), --- = Not Applicable.

(b) Unit and MDL in wet chemical test



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Test Items	Pb	Cd	Hg	DBP	BBP	DEHP	DIBP	MCCPs	TBBP-A
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
MDL	10	10	10	100	100	100	100	300	100

The MDL for single compound of PBBs and PBDEs is 100 mg/kg,
MDL of Cr(VI) for polymer, composite and leather sample is 10 mg/kg.
MDL of Cr(VI) for metal sample is 0.10 µg/cm².

(c) ▼ =Metal sample

- The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 µg/cm². The sample coating is considered to contain Cr(VI).
- The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10 µg/cm²). The coating is considered a non-Cr(VI) based coating
- The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive- unavoidable coating variations may influence the determination

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

- (5) Restricted substances and maximum concentration values tolerated by weight in homogeneous materials under RoHS Directive: Cd: 0.01%, Pb/Hg/Cr(VI)/PBBs/PBDEs/DEHP/DBP/BBP/DIBP: 0.1%. The limit is quoted from RoHS Directive (EU) 2015/863.
Proposes Restricted substances and maximum concentration values tolerated by weight in homogeneous materials under RoHS Directive: MCCPs/TBBP-A: 0.1%.

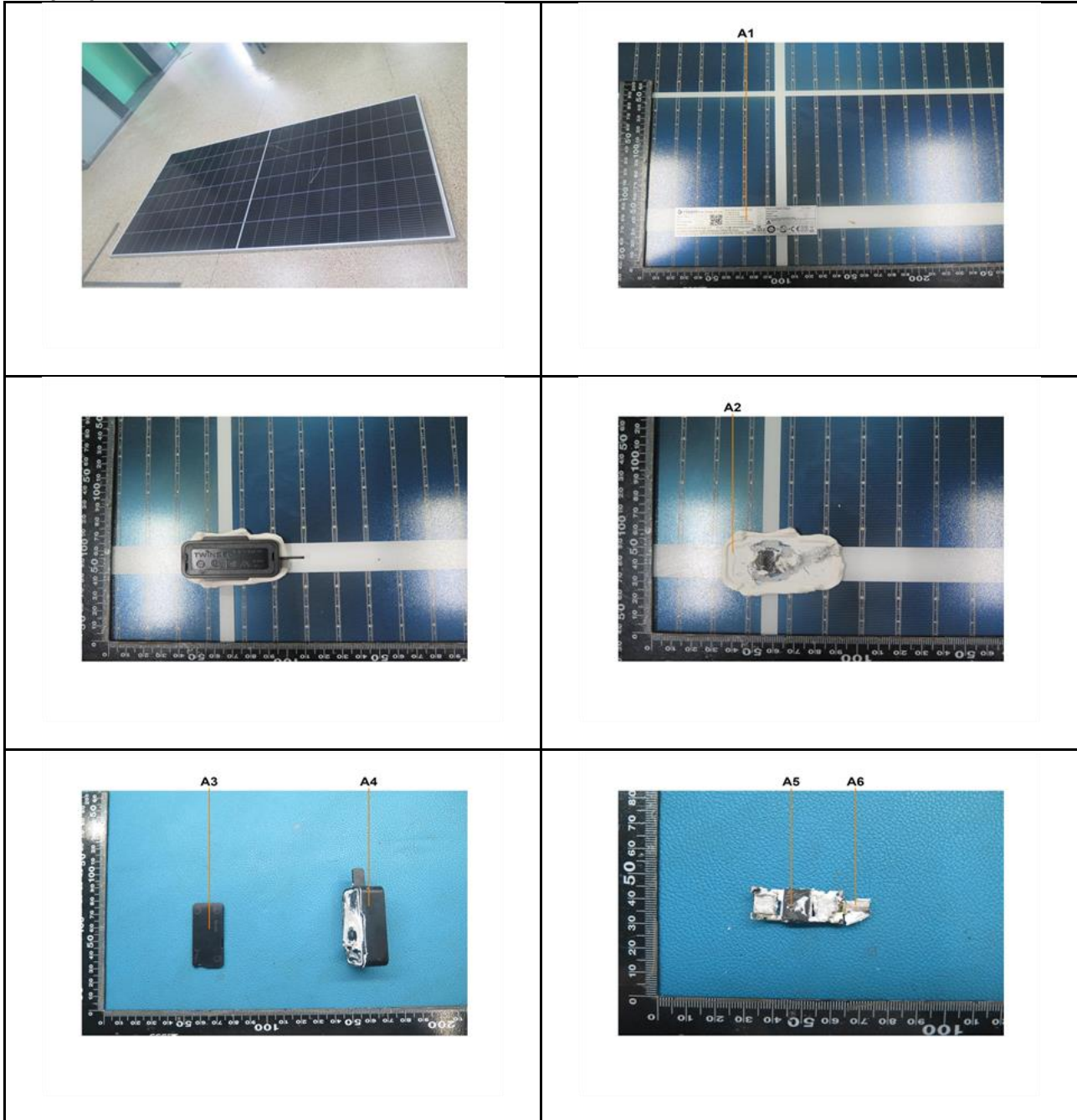
- (6) IEC 62321 series is equivalent to EN 62321 series.

- (7) According to the declaration from applicant, the materials of Model "RSM132-8-665BMDG" are the same as those in Model "RSM132-8-660BMDG, RSM132-8-655BMDG, RSM132-8-665M, RSM132-8-660M, RSM132-8-655M" and its results for support the results of Model "RSM132-8-660BMDG, RSM132-8-655BMDG, RSM132-8-665M, RSM132-8-660M, RSM132-8-655M". The applicant will take the responsibility of all discrepancy and risk.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.



Sample photos:



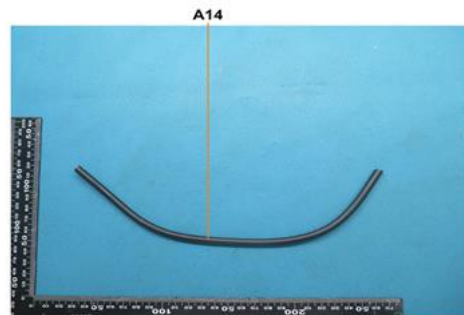
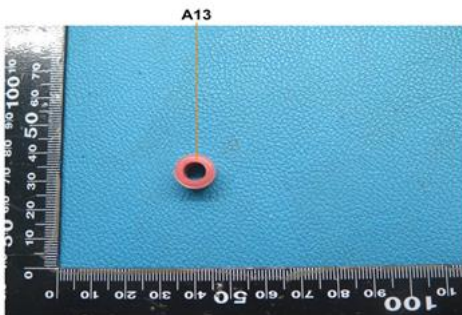
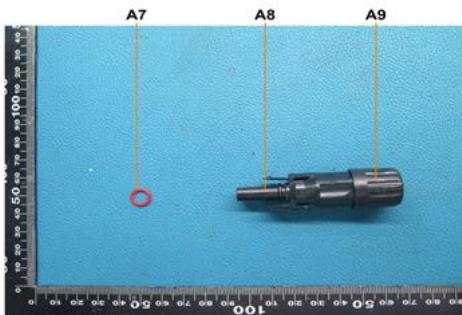
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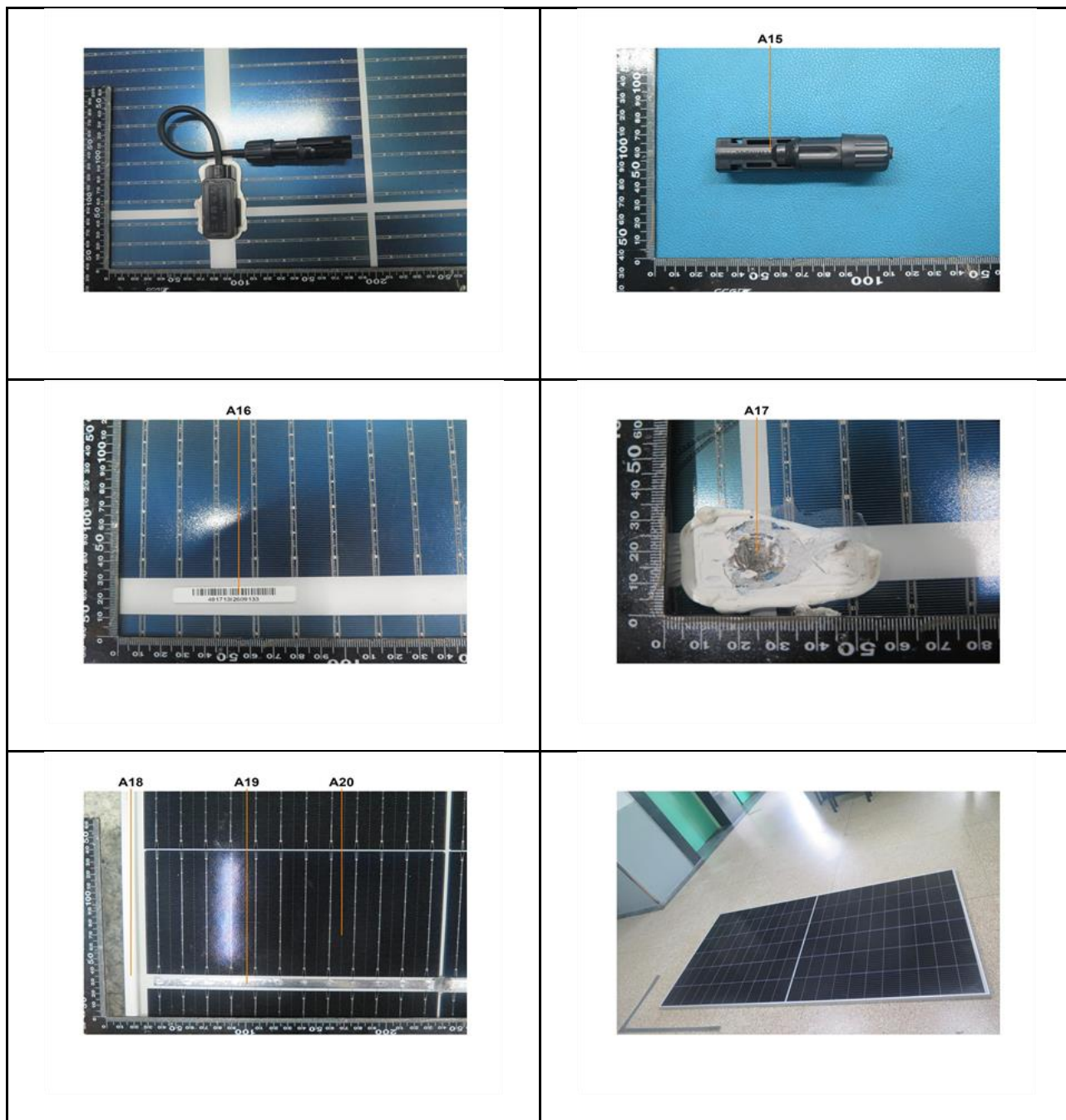
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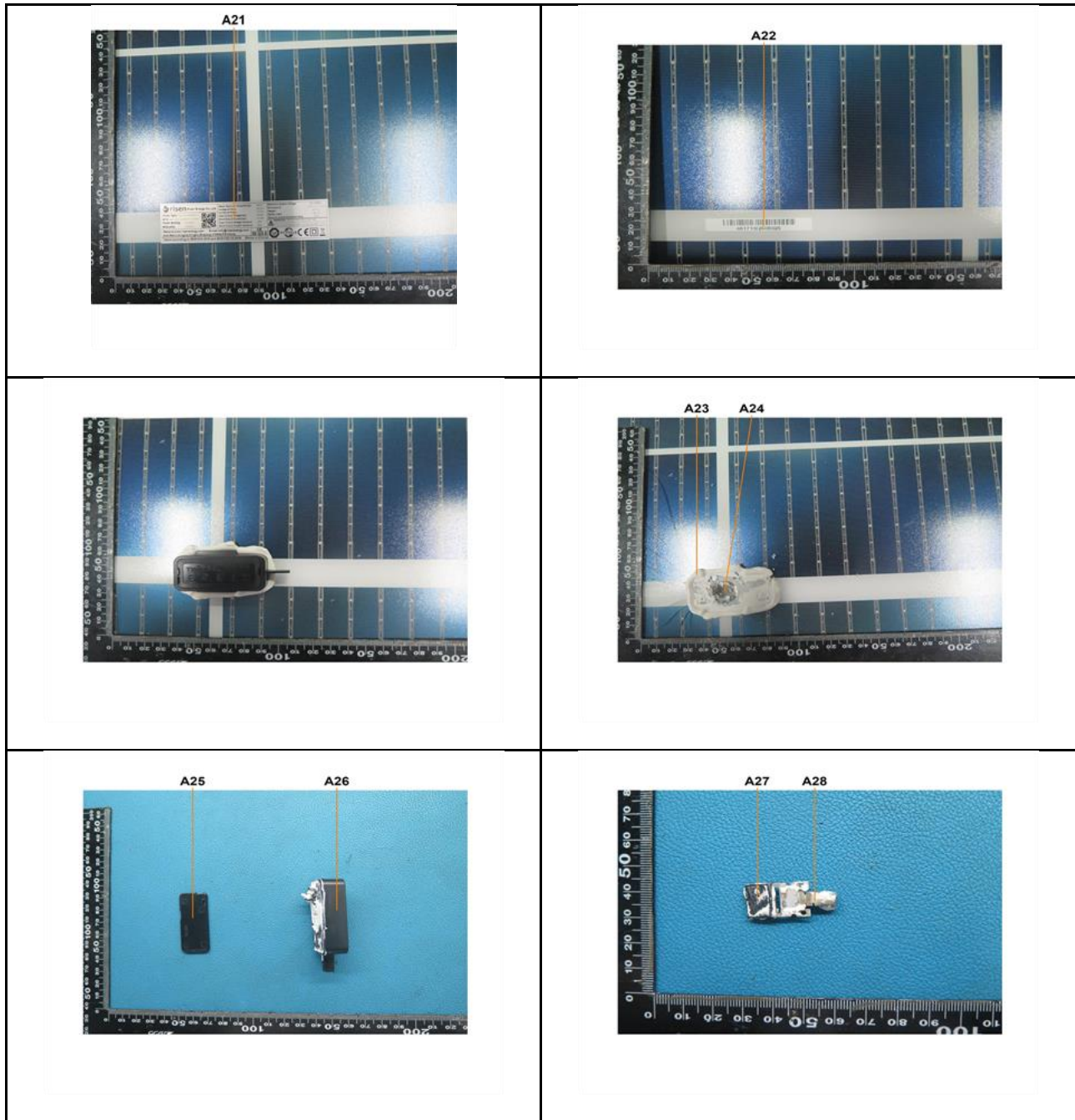
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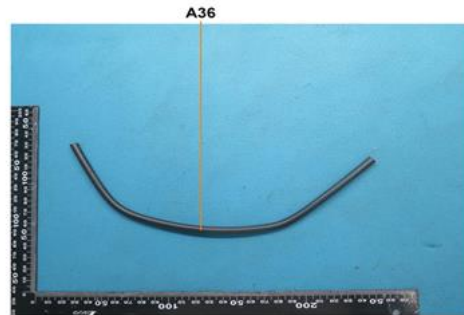
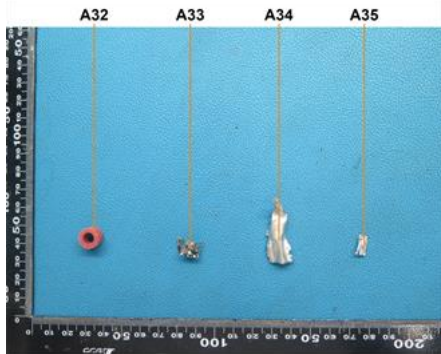
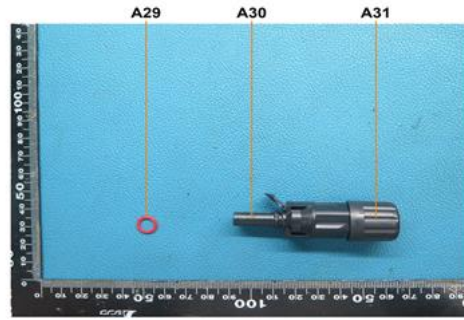
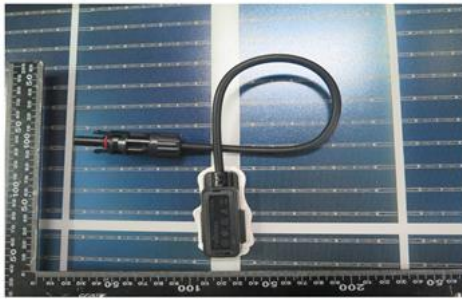
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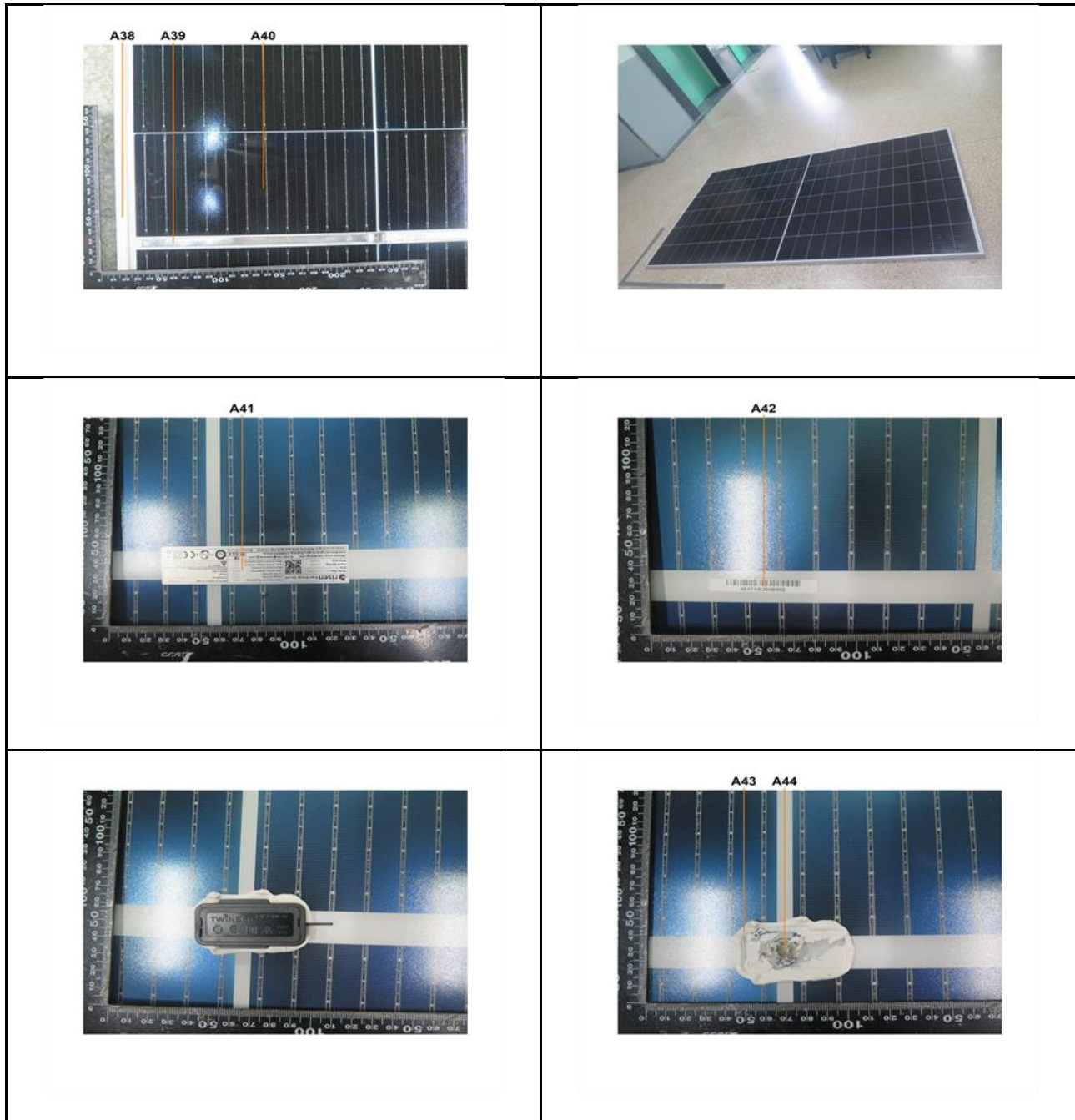
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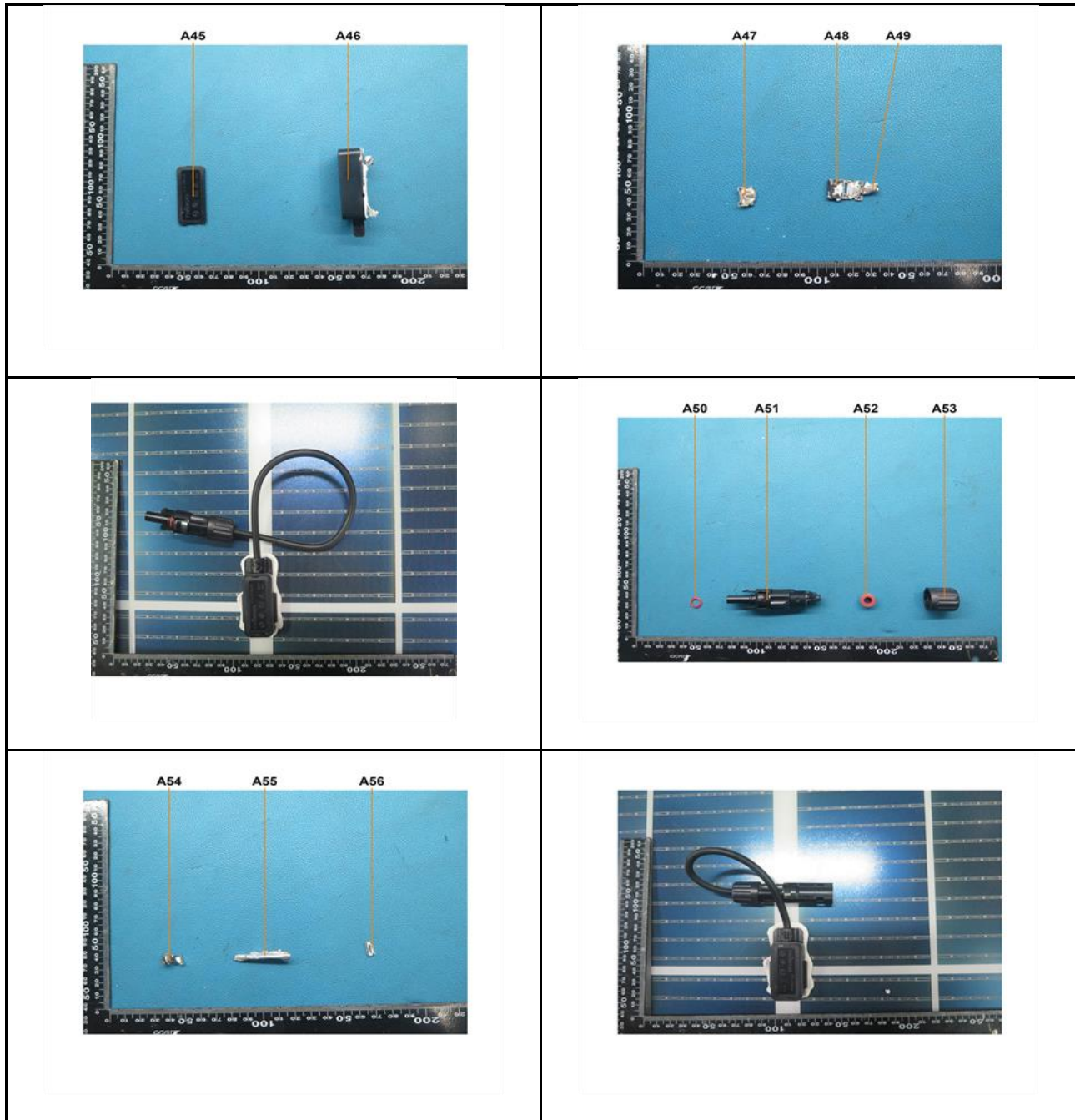
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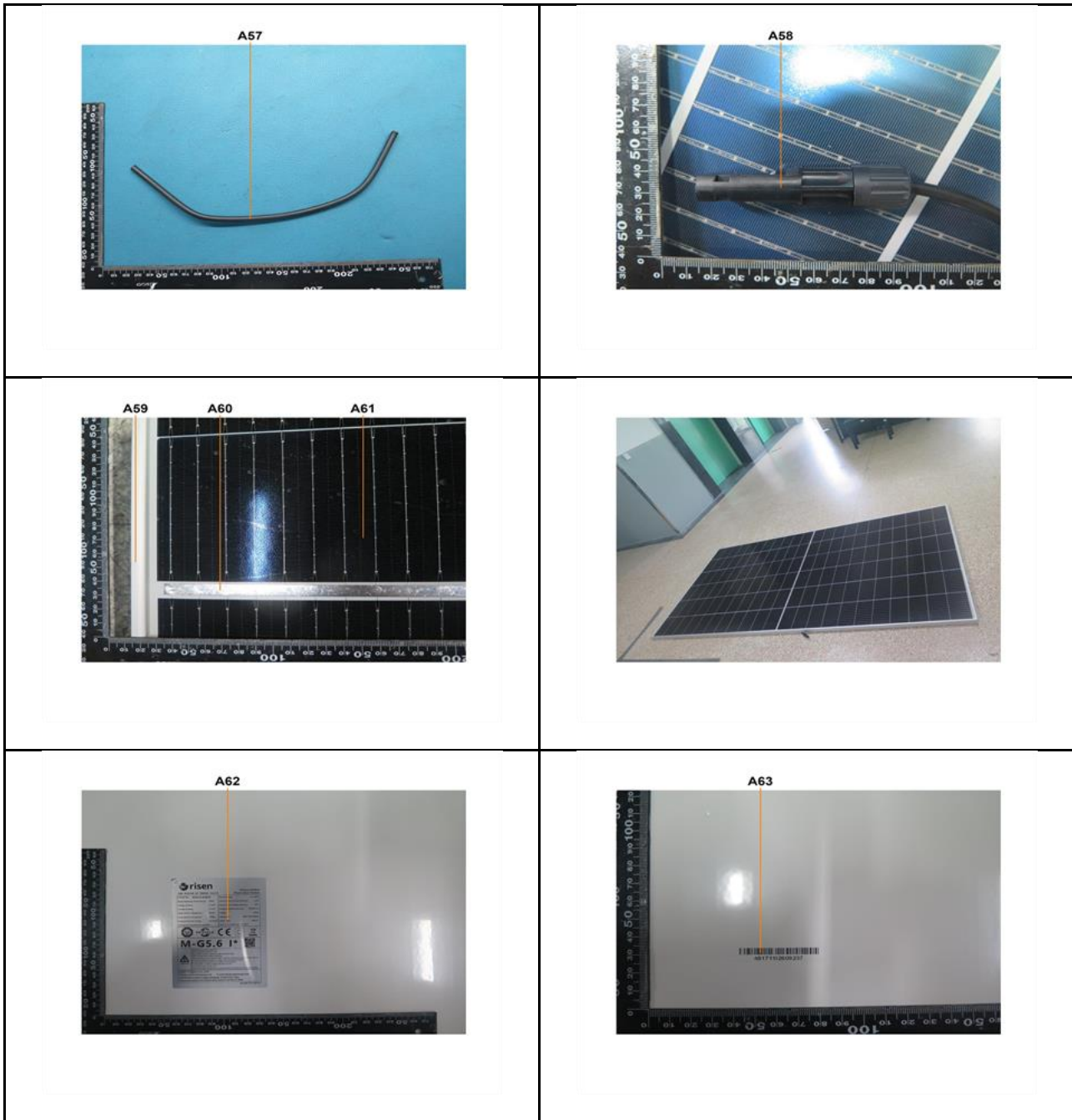
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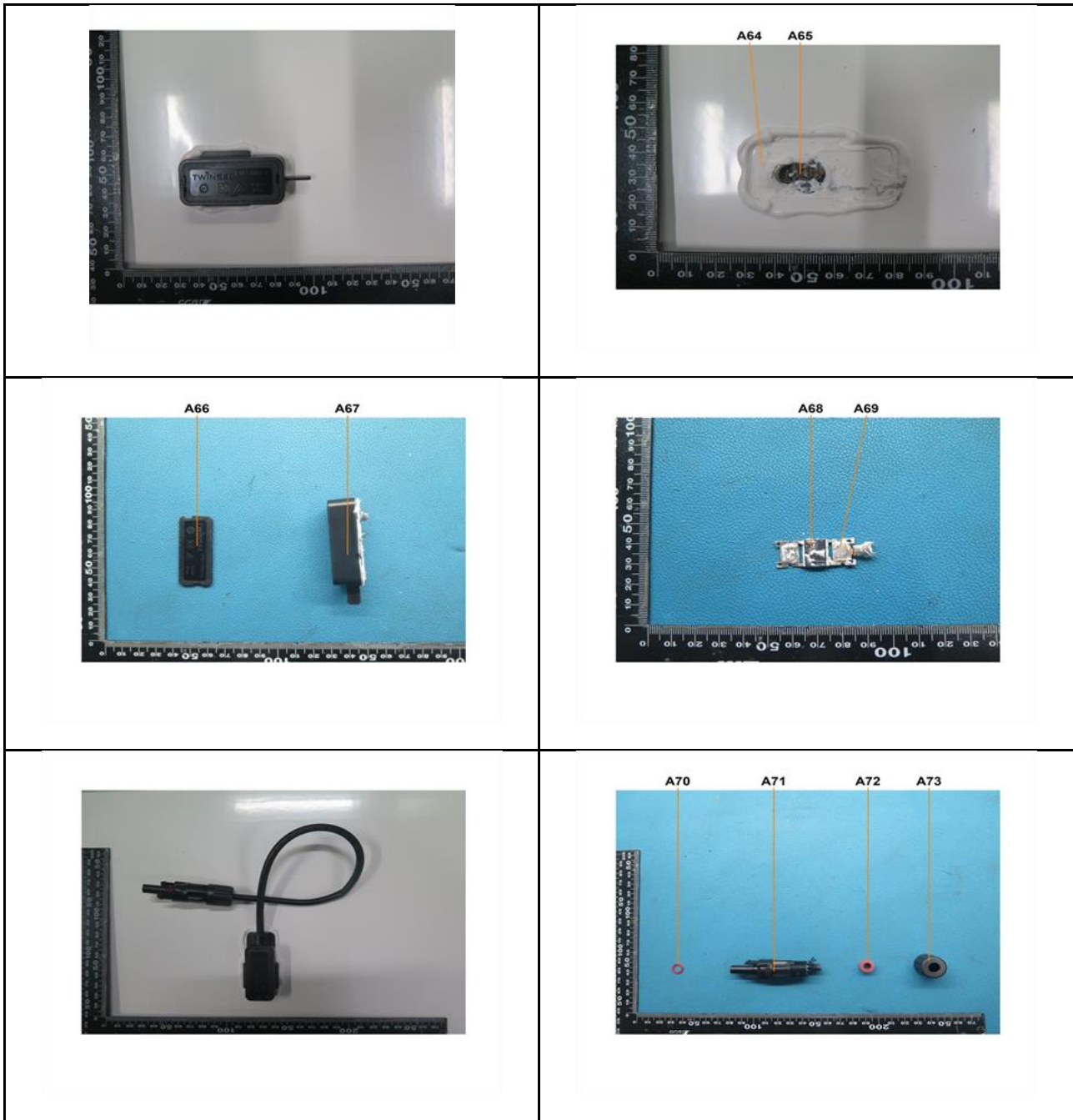
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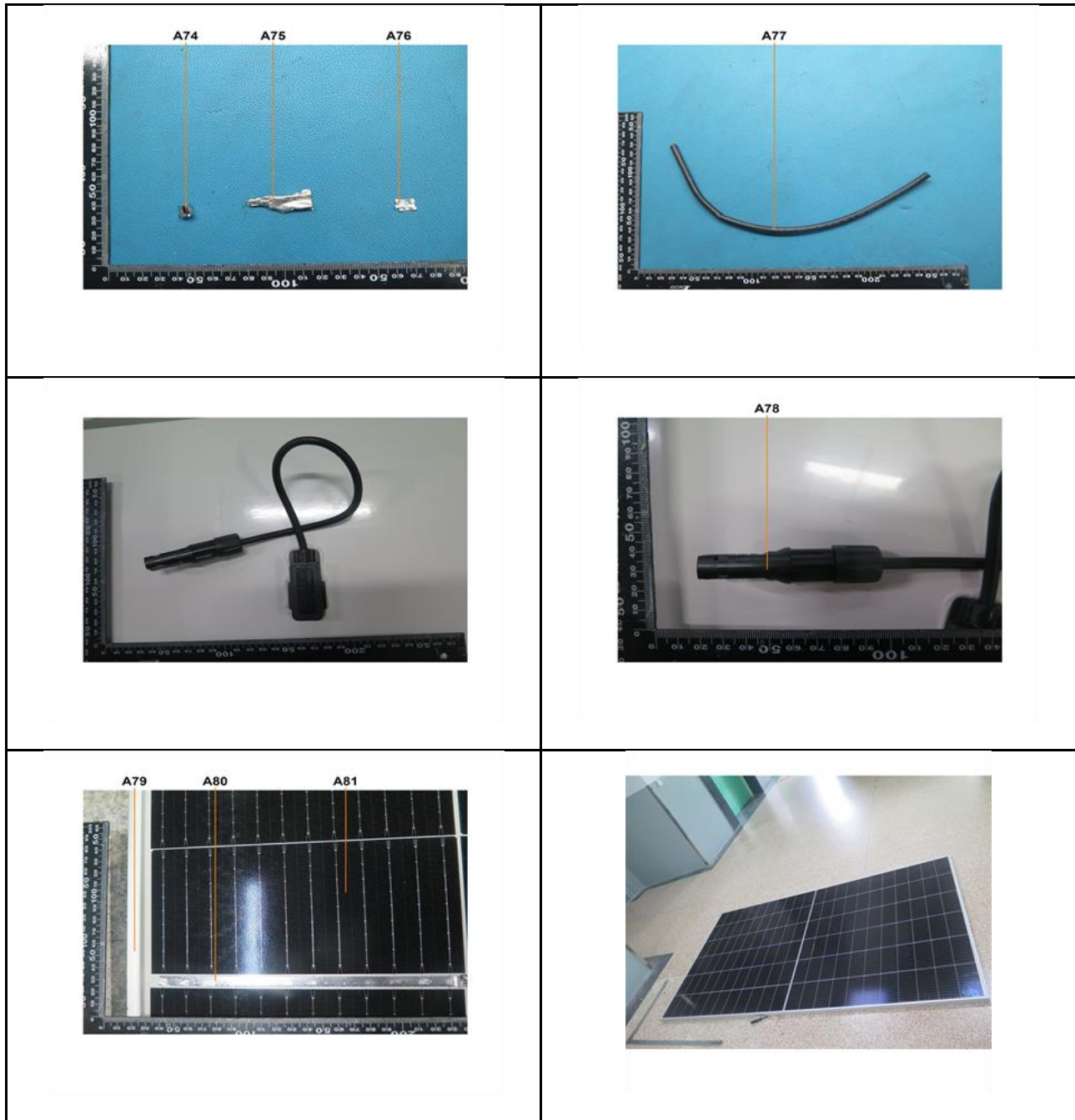
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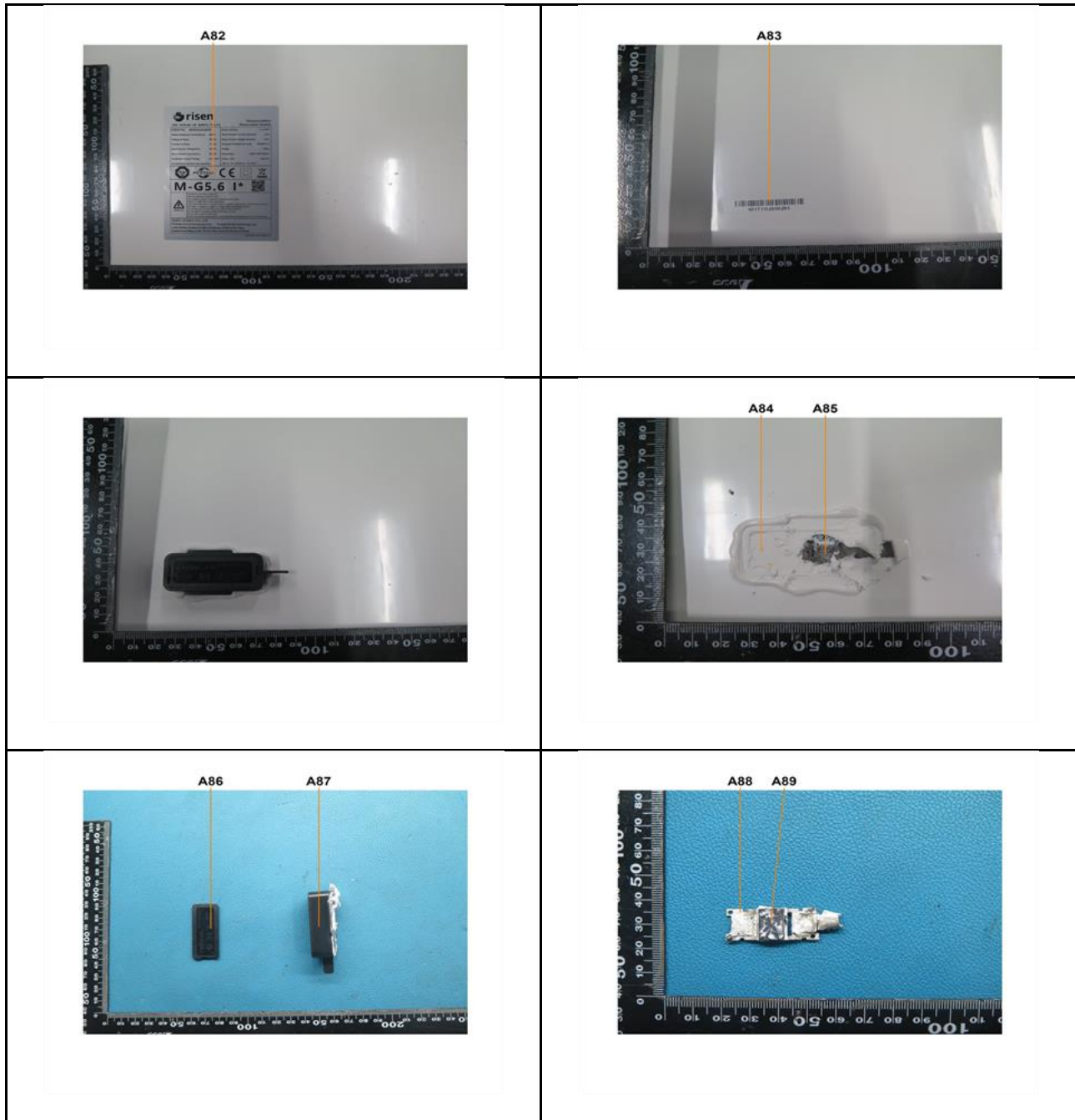
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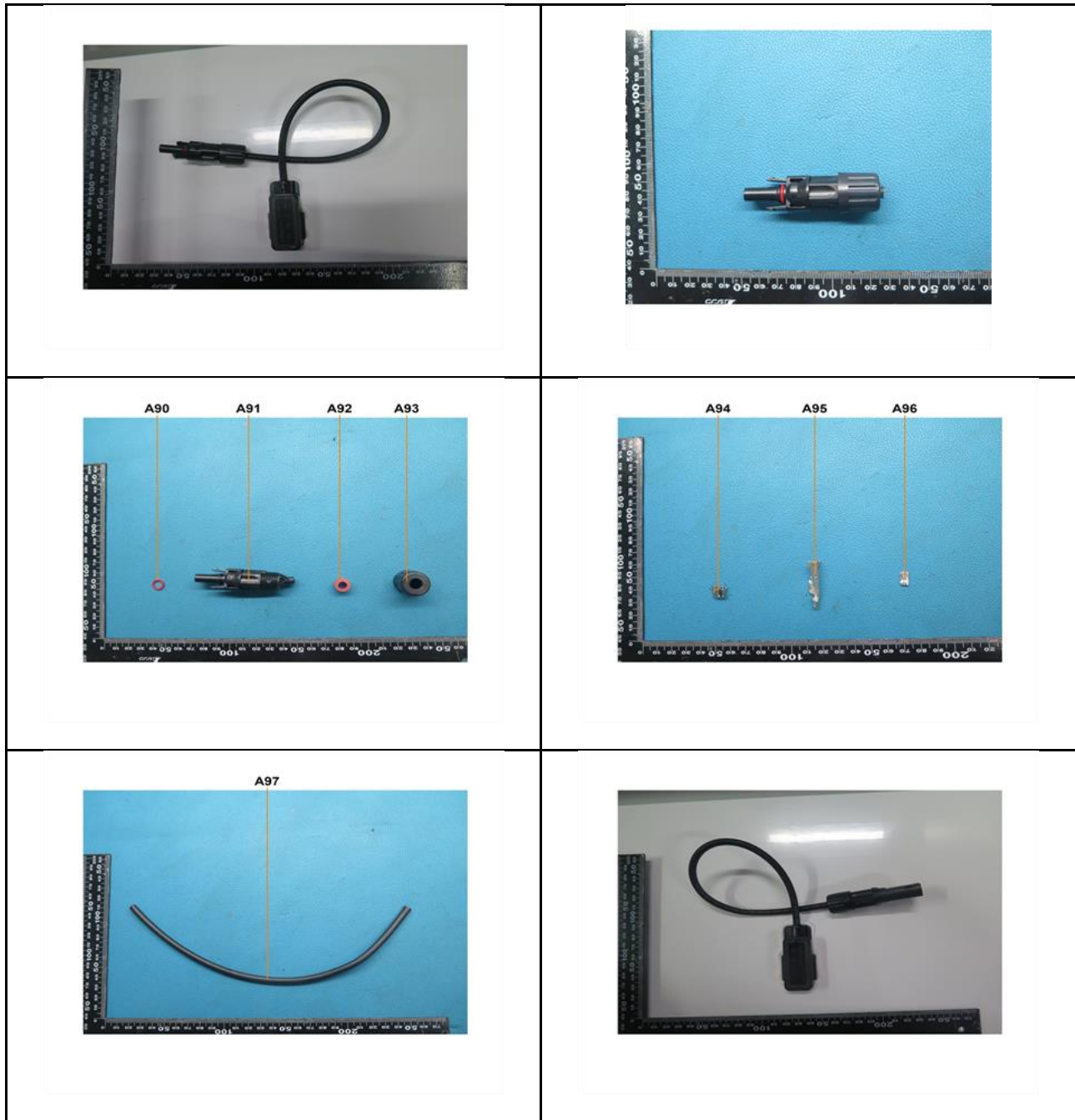
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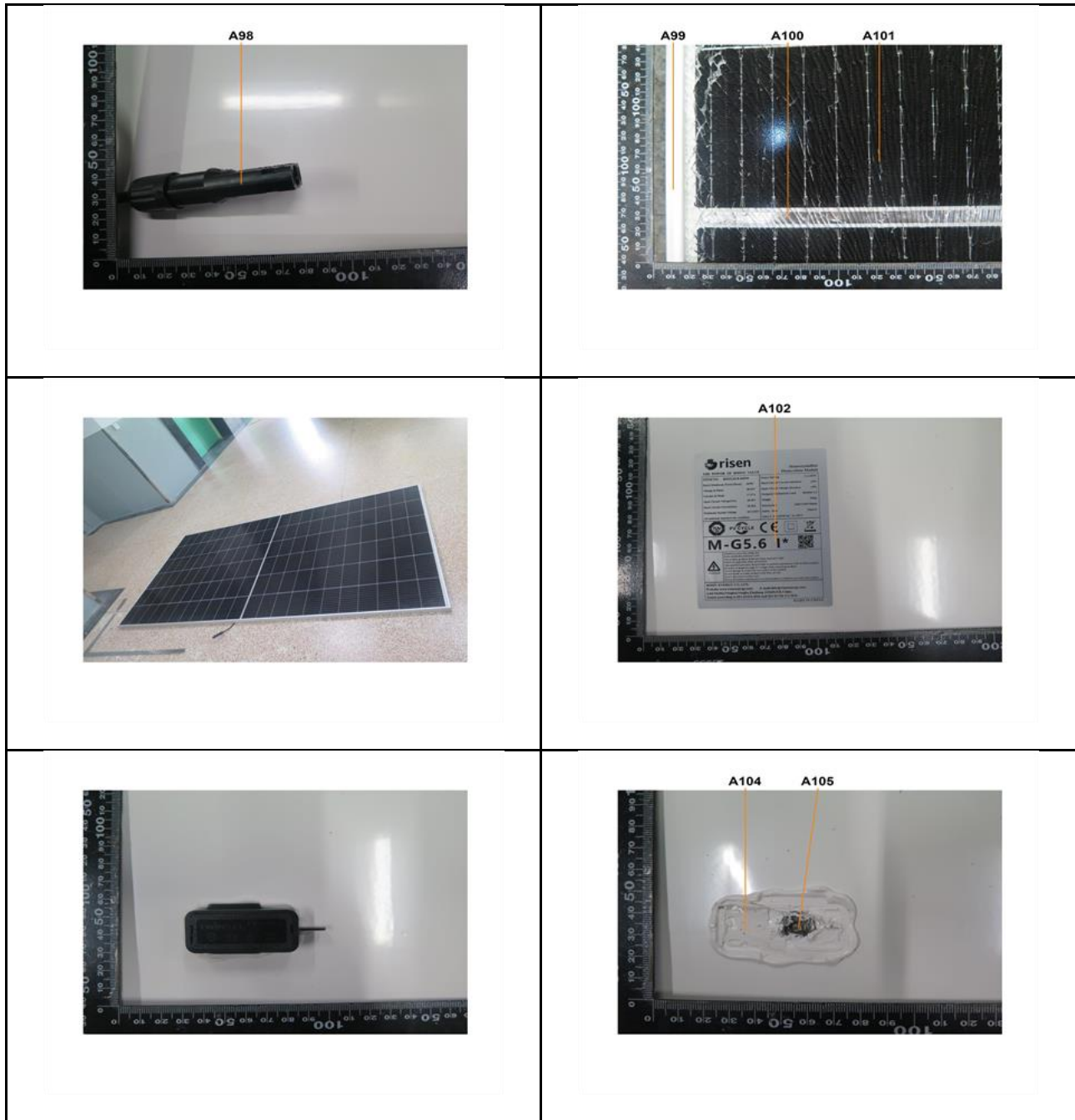
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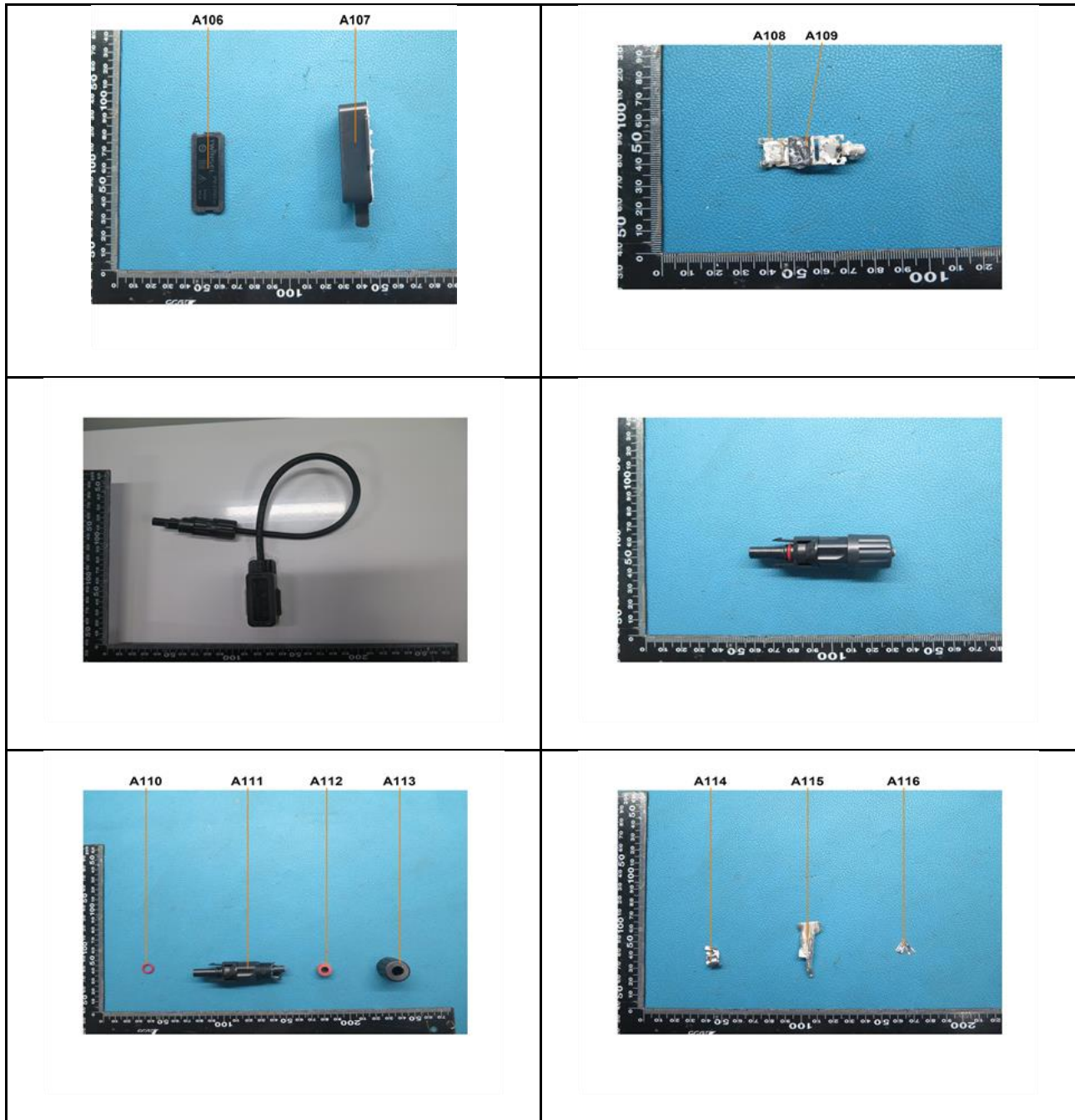
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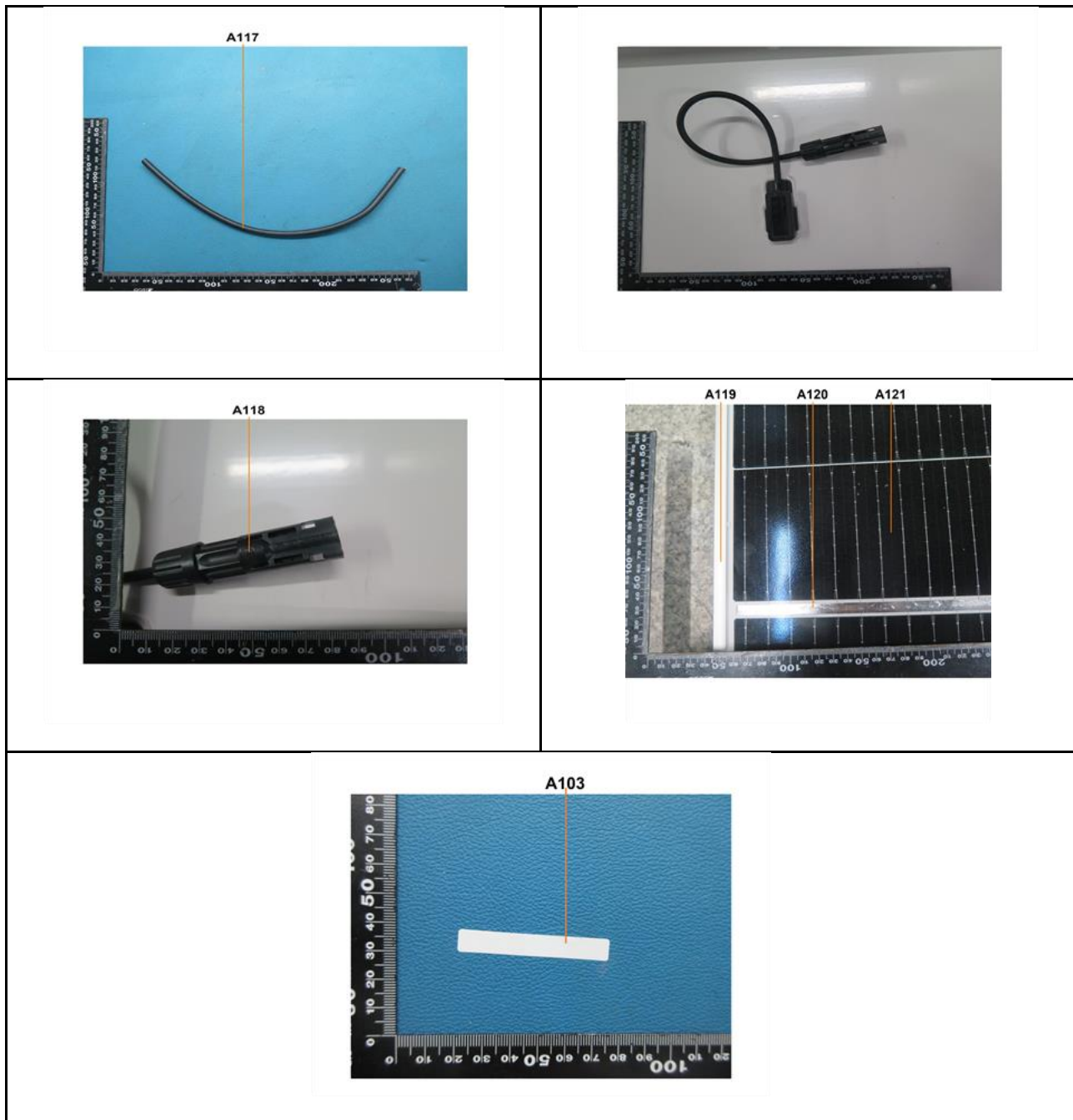
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