

Verification Report

No. SZXEC2202410901

Date: 02 Aug 2022

Page 1 of 10

Client Name : GERMANSOLAR ASIA PTE.,LTD.

Client Address : 18 BOON LAY WAY #06-107 TRADEHUB 21 SINGAPORE (609966)

Sample Name : PV Module

Tested Basic Model No. (P.O. No.) : GSP-020W-12

Client Ref. Info. : Please See Note (6)

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

SGS Job No. : RP22-018813 - SZ

Date of Sample Received : 14 Jul 2022

Verification Period : 14 Jul 2022 - 30 Jul 2022

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).

Test Result Summary

Test Items	Conclusion
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	PASS

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch



Andy Ni
Approved Signatory

scan to see the report



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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 and IEC62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Verification Part Description :

SN ID	Sample No	SGS Sample ID	Description
SN1	A1	SZX22-024109.001	Silvery metal frame
SN2	A2	SZX22-024109.002	Silvery plastic label with black printing
SN3	A3	SZX22-024109.003	Silvery plastic label with black printing
SN4	A4	SZX22-024109.004	Black plastic shell
SN5	A5	SZX22-024109.005	White plastic sheet
SN6	A6	SZX22-024109.006	Transparent glass
SN7	A7	SZX22-024109.007	White plastic sheet with Dark blue material



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SN ID	Sample No	SGS Sample ID	Description
SN8	A8	SZX22-024109.008	White dry glue
SN9	A9	SZX22-024109.009	Silvery metal screw
SN10	A10	SZX22-024109.010	Silvery metal plate
SN11	A11	SZX22-024109.011	Transparent dry glue
SN12	A12	SZX22-024109.012	Translucent plastic part
SN13	A13	SZX22-024109.013	Black plastic (cable jacket)
SN14	A15	SZX22-024109.015	Silvery plastic label with black & red printing
SN15	A16	SZX22-024109.016	Red plastic (wire insulation)
SN16	A17	SZX22-024109.017	Black plastic (wire insulation)
SN17	A18	SZX22-024109.018	Silvery metal core wire



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Verification Results :

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
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	BL	BL	BL	BL	BL	BL	BL	BL
PBBs	--	BL	BL	ND	BL	BL	BL	BL
PBDEs	--	BL	BL	102	BL	BL	BL	BL
DBP	---	ND	ND	ND	ND	---	ND	ND
BBP	---	ND	ND	ND	ND	---	ND	ND
DEHP	---	ND	ND	ND	ND	---	ND	ND
DIBP	---	ND	ND	ND	ND	---	ND	ND
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A9	A10	A11	A12	A13	A15	A16	A17
Pb	BL	BL	BL	BL	BL	BL	BL	BL
Cd	BL	BL	BL	BL	BL	BL	BL	BL
Hg	BL	BL	BL	BL	BL	BL	BL	BL
Cr(VI)▼	ND	BL	BL	BL	BL	BL	BL	BL
PBBs	--	--	BL	BL	BL	BL	BL	BL
PBDEs	--	--	BL	BL	BL	BL	BL	BL
DBP	---	---	ND	ND	218	ND	ND	ND
BBP	---	---	ND	ND	ND	ND	ND	ND
DEHP	---	---	ND	ND	ND	ND	ND	ND
DIBP	---	---	ND	ND	ND	ND	ND	ND
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Test Item(s)	A18
Pb	BL
Cd	BL
Hg	BL
Cr(VI)▼	BL
PBBs	--



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Test Item(s)	A18
PBDEs	--
DBP	---
BBP	---
DEHP	---
DIBP	---
Conclusion	PASS



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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) 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

Test Items	Pb	Cd	Hg	DBP	BBP	DEHP	DIBP
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
MDL	10	10	10	100	100	100	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 0.10µg/cm².

- (c) ▼ =Metal sample
 a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13µg/cm².
 The sample coating is considered to contain Cr(VI)



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- b. The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10µg/cm²).
The coating is considered a non-Cr(VI) based coating
- c. The result between 0.10µg/cm² and 0.13µg/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.

(4) 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.

(5) IEC 62321 series is equivalent to EN 62321 series.

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.



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(6)

GSM- followed by 005, 010, 015, 020, 025, 030, 035, 040, 045, 050, 055, 060, 065, 070, 075, 080, 085, 090, 095, 100, 105, 110, 115, 120, 125, 130, 135, 140, 145, 150, 155, 160, 165, 170, 175, 180, 185, 190, 195, 200 or 205; followed by W-12.

GSM- followed by 005, 010, 015, 020, 025, 030, 035, 040, 045, 050, 055, 060, 065, 070, 075, 080, 085, 090, 095, 100, 105, 110, 115, 120, 125, 130, 135, 140, 145, 150, 155, 160, 165, 170, 175, 180, 185, 190, 195, 200, 205, 210, 215, 220 or 225; followed by W-24.

GSM- followed by 205, 210, 215, 220, 225, 230, 235, 240, 245, 250, 255, 260, 265, 270, 275, 280, 285, 290, 295, 300, 305, 310, 315, 320, 325, 330, 335, 340, 345, 350, 355, 360, 365, 370, 375, 380, 385, 390, 395, 400, 405 or 410; followed by W.

GSM- followed by 325, 330, 335, 340, 345, 350, 355, 360, 365, 370, 375, 390, 395, 400, 405, 410, 415, 420, 425, 430, 435, 440, 445 or 450; followed by W-H.

GSP- followed by 005, 010, 015, 020, 025, 030, 035, 040, 045, 050, 055, 060, 065, 070, 075, 080, 085, 090, 095, 100, 105, 110, 115, 120, 125, 130, 135, 140, 145, 150, 155, 160, 165 or 170; followed by W-12.

GSP- followed by 005, 010, 015, 020, 025, 030, 035, 040, 045, 050, 055, 060, 065, 070, 075, 080, 085, 090, 095, 100, 105, 110, 115, 120, 125, 130, 135, 140, 145, 150, 155, 160, 165, 170, 175, 180, 185, 190, 195, 200, 205 or 210; followed by W-24.

GSP- followed by 215, 220, 225, 230, 235, 240, 245, 250, 255, 260, 265, 270, 275, 280, 285, 290, 295, 300, 305, 310, 315, 320, 325, 330, 335, 340, 345, 350 or 355; followed by W.

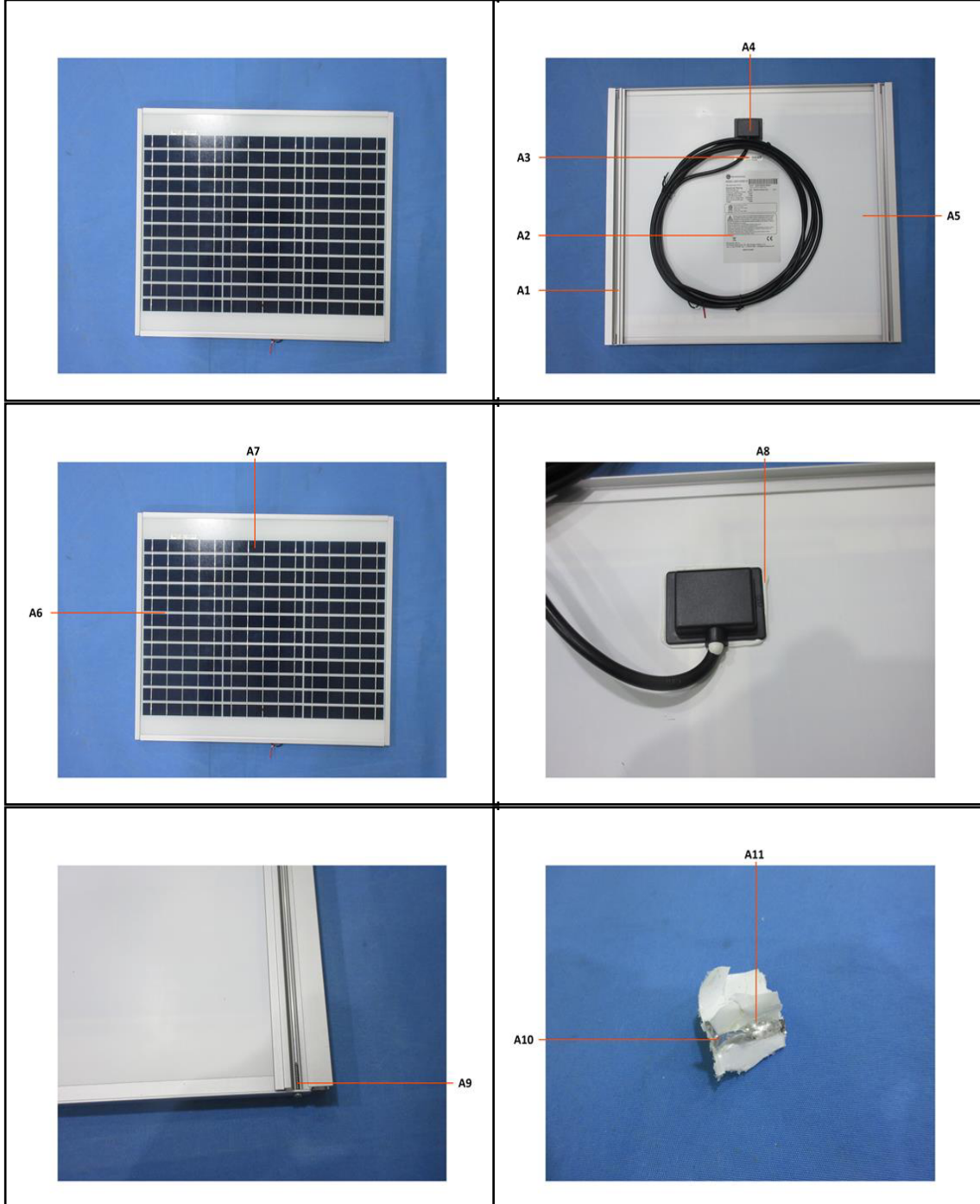
GSP- followed by 275, 280, 285, 290, 295, 330, 335, 340, 345, 350 or 355; followed by W-H.



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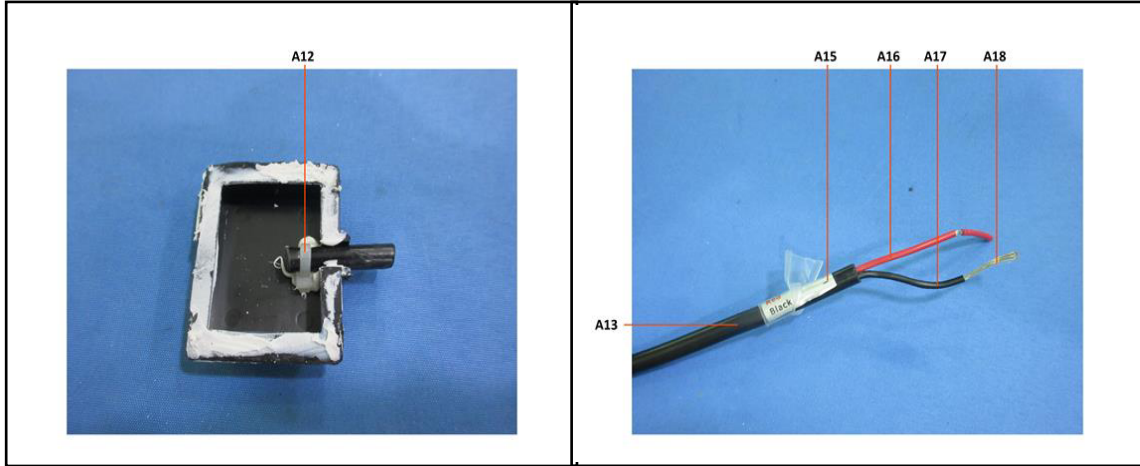
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Sample photo:



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