

VERIFICATION REPORT

Client Name	EcoFlow Inc.
Name of product	100W flexible solar panel
Manufacturer	EcoFlow Inc.
Model	EF-Flex-M100
Test sort	Commission Test



CCIC Southern Testing Co.,Ltd.

Address: Electronic Testing Building, No. 43 Shahe Road, Xili Jiedao, Nanshan District, Shenzhen, Guangdong, China

P.C.: 518055

TEL: 86-755-86913585

FAX: 86-755-26627238

Internet: [http:// www.ccic-set.com](http://www.ccic-set.com)

E-Mail: manager@ccic-set.com

The authenticity of the report is subject to the encrypted electronic version, which can be verified through the CNCA website (<http://yz.cnca.cn>).

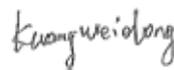


Customer information	Client	EcoFlow Inc.
	Address	Plant A202, Founder Technology Industrial Park, Shiyan Sub-district, Bao'an District Shenzhen, Guangdong 518000 China
Sample information	Name of sample	100W flexible solar panel
	Model	EF-Flex-M100
	Trade Name	
	Manufacturer	EcoFlow Inc.
	Address	Plant A202, Founder Technology Industrial Park, Shiyan Sub-district, Bao'an District Shenzhen, Guangdong 518000 China
	Factory	EcoFlow Inc.
	Address	Plant A202, Founder Technology Industrial Park, Shiyan Sub-district, Bao'an District Shenzhen, Guangdong 518000 China
Test information	Sample Received	Apr. 11, 2022
	Testing Period	Apr. 11, 2022~ Apr. 20, 2022
	Test sort	Commission Test
	Item Requested	See next page
	Standard/Foundation	See next page
	Conclusion	The tested sample complied with RoHS directive (2011/65/EU) and amending directive (EU)2015/863.
Remark	-----	

Tested By:



Checked By:



Approved By:



Date:

Apr. 26, 2022

Date:

Apr. 26, 2022

Date:

Apr. 26, 2022



Item Requested	<p>(1) As specified by client, to screen test Cd, Pb, Hg, Cr(VI), PBBs, PBDEs and phthalates(DIBP, DEHP, BBP, DBP) content in the submitted sample.</p> <p>(2) As specified by client, further chemical testing for Cd, Pb, Hg, Cr(VI), PBBs, PBDEs and phthalates(DIBP, DEHP, BBP, DBP) are recommended to be performed if the screen results exceeds the limit of IEC 62321-1:2013 or the phthalates screen limit.</p>
Standard/Foundation	<p>(1)With reference to IEC 62321-3-1:2013, Screening – Lead, mercury, cadmium, total chromium and total bromine by XRF Spectroscopy With reference to IEC 62321-8:2017, Screening – phthalates by GC-MS</p> <p>(2) Chemical test method: With reference to IEC 62321-5:2013, determination of Lead, Cadmium, by ICP With reference to IEC 62321-4:2013+A1:2017, determination of Mercury by ICP With reference to IEC 62321-7-2:2017 & IEC 62321-7-1:2015, determination of Hexavalent Chromium by Colorimetric method With reference to IEC 62321-6:2015, determination of PBBs, PBDEs by GC-MS. With reference to IEC 62321-8:2017, determination of phthalates by GC-MS.</p>



Test Results:

No.	COMPONENTS	Item	Results of EDXRF (P/F/D)	Screen results of PHTH	Results of chemical testing (mg/kg)	Conclusion (P/F)	Sample submitted/ Resubmitted date
1	Black plastic shell	Cd	P	/	/	P	Apr. 11, 2022
		Cr(VI)	P	/	/	P	
		Hg	P	/	/	P	
		Pb	P	/	/	P	
		PBBs	D	/	N.D.	P	
		PBDEs	D	/	N.D.	P	
		DEHP	/	P	/	P	
		DBP	/	P	/	P	
		BBP	/	P	/	P	
2	Black label paper	Cd	P	/	/	P	Apr. 11, 2022
		Cr(VI)	P	/	/	P	
		Hg	P	/	/	P	
		Pb	P	/	/	P	
		PBBs	P	/	/	P	
		PBDEs	P	/	/	P	
		DEHP	/	P	/	P	
		DBP	/	P	/	P	
		BBP	/	P	/	P	
3	Coppery metal screw ring	Cd	P	/	/	P	Apr. 11, 2022
		Cr(VI)	P	/	/	P	
		Hg	P	/	/	P	
		Pb	D	/	*1.51×10 ⁴	P	
		PBBs	/	/	/	/	
		PBDEs	/	/	/	/	
		DEHP	/	/	/	/	
		DBP	/	/	/	/	
		BBP	/	/	/	/	
4	Silvery metal screw	Cd	P	/	/	P	Apr. 11, 2022
		Cr(VI)	D	/	<0.10**	P	
		Hg	P	/	/	P	
		Pb	P	/	/	P	
		PBBs	/	/	/	/	
		PBDEs	/	/	/	/	
		DEHP	/	/	/	/	
		DBP	/	/	/	/	
		BBP	/	/	/	/	
DIBP	/	/	/	/			



No.	COMPONENTS	Item	Results of EDXRF (P/F/D)	Screen results of PHTH	Results of chemical testing (mg/kg)	Conclusion (P/F)	Sample submitted/ Resubmitted date
5	Silvery metal ring	Cd	P	/	/	P	Apr. 11, 2022
		Cr(VI)	P	/	/	P	
		Hg	P	/	/	P	
		Pb	P	/	/	P	
		PBBs	/	/	/	/	
		PBDEs	/	/	/	/	
		DEHP	/	/	/	/	
		DBP	/	/	/	/	
		BBP	/	/	/	/	
		DIBP	/	/	/	/	
6	Transparent glue	Cd	P	/	/	P	Apr. 11, 2022
		Cr(VI)	P	/	/	P	
		Hg	P	/	/	P	
		Pb	P	/	/	P	
		PBBs	D	/	N.D.	P	
		PBDEs	D	/	N.D.	P	
		DEHP	/	P	/	P	
		DBP	/	P	/	P	
		BBP	/	P	/	P	
		DIBP	/	P	/	P	
7	Silvery glass	Cd	P	/	/	P	Apr. 11, 2022
		Cr(VI)	P	/	/	P	
		Hg	P	/	/	P	
		Pb	P	/	/	P	
		PBBs	D	/	N.D.	P	
		PBDEs	D	/	N.D.	P	
		DEHP	/	P	/	P	
		DBP	/	P	/	P	
		BBP	/	P	/	P	
		DIBP	/	P	/	P	
8	Black coating	Cd	P	/	/	P	Apr. 11, 2022
		Cr(VI)	P	/	/	P	
		Hg	P	/	/	P	
		Pb	P	/	/	P	
		PBBs	P	/	/	P	
		PBDEs	P	/	/	P	
		DEHP	/	P	/	P	
		DBP	/	P	/	P	
		BBP	/	P	/	P	
		DIBP	/	P	/	P	



No.	COMPONENTS	Item	Results of EDXRF (P/F/D)	Screen results of PHTH	Results of chemical testing (mg/kg)	Conclusion (P/F)	Sample submitted/ Resubmitted date
9	Black plastic board	Cd	P	/	/	P	Apr. 11, 2022
		Cr(VI)	P	/	/	P	
		Hg	P	/	/	P	
		Pb	P	/	/	P	
		PBBs	D	/	N.D.	P	
		PBDEs	D	/	N.D.	P	
		DEHP	/	P	/	P	
		DBP	/	P	/	P	
		BBP	/	P	/	P	
10	Black glue	Cd	P	/	/	P	Apr. 11, 2022
		Cr(VI)	P	/	/	P	
		Hg	P	/	/	P	
		Pb	P	/	/	P	
		PBBs	P	/	/	P	
		PBDEs	P	/	/	P	
		DEHP	/	P	/	P	
		DBP	/	P	/	P	
		BBP	/	P	/	P	
11	Black plastic shell	Cd	P	/	/	P	Apr. 11, 2022
		Cr(VI)	P	/	/	P	
		Hg	P	/	/	P	
		Pb	P	/	/	P	
		PBBs	D	/	N.D.	P	
		PBDEs	D	/	N.D.	P	
		DEHP	/	P	/	P	
		DBP	/	P	/	P	
		BBP	/	P	/	P	
12	Red silicone ring	Cd	P	/	/	P	Apr. 11, 2022
		Cr(VI)	P	/	/	P	
		Hg	P	/	/	P	
		Pb	P	/	/	P	
		PBBs	P	/	/	P	
		PBDEs	P	/	/	P	
		DEHP	/	P	/	P	
		DBP	/	P	/	P	
		BBP	/	P	/	P	
DIBP	/	P	/	P			



No.	COMPONENTS	Item	Results of EDXRF (P/F/D)	Screen results of PHTH	Results of chemical testing (mg/kg)	Conclusion (P/F)	Sample submitted/ Resubmitted date
13	Black plastic plug	Cd	P	/	/	P	Apr. 11, 2022
		Cr(VI)	P	/	/	P	
		Hg	P	/	/	P	
		Pb	P	/	/	P	
		PBBs	P	/	/	P	
		PBDEs	P	/	/	P	
		DEHP	/	P	/	P	
		DBP	/	P	/	P	
		BBP	/	P	/	P	
		DIBP	/	P	/	P	
14	Silvery metal contact pin	Cd	P	/	/	P	Apr. 11, 2022
		Cr(VI)	P	/	/	P	
		Hg	P	/	/	P	
		Pb	P	/	/	P	
		PBBs	/	/	/	/	
		PBDEs	/	/	/	/	
		DEHP	/	/	/	/	
		DBP	/	/	/	/	
		BBP	/	/	/	/	
		DIBP	/	/	/	/	
15	Black plastic screw ring shell	Cd	P	/	/	P	Apr. 11, 2022
		Cr(VI)	P	/	/	P	
		Hg	P	/	/	P	
		Pb	P	/	/	P	
		PBBs	P	/	/	P	
		PBDEs	P	/	/	P	
		DEHP	/	P	/	P	
		DBP	/	P	/	P	
		BBP	/	P	/	P	
		DIBP	/	P	/	P	
16	Black plastic screw ring	Cd	P	/	/	P	Apr. 11, 2022
		Cr(VI)	P	/	/	P	
		Hg	P	/	/	P	
		Pb	P	/	/	P	
		PBBs	P	/	/	P	
		PBDEs	P	/	/	P	
		DEHP	/	P	/	P	
		DBP	/	P	/	P	
		BBP	/	P	/	P	
		DIBP	/	P	/	P	



No.	COMPONENTS	Item	Results of EDXRF (P/F/D)	Screen results of PHTH	Results of chemical testing (mg/kg)	Conclusion (P/F)	Sample submitted/ Resubmitted date
17	Black plastic bundle	Cd	P	/	/	P	Apr. 11, 2022
		Cr(VI)	P	/	/	P	
		Hg	P	/	/	P	
		Pb	P	/	/	P	
		PBBs	P	/	/	P	
		PBDEs	P	/	/	P	
		DEHP	/	P	/	P	
		DBP	/	P	/	P	
		BBP	/	P	/	P	
18	Black resistor body	Cd	P	/	/	P	Apr. 11, 2022
		Cr(VI)	P	/	/	P	
		Hg	P	/	/	P	
		Pb	P	/	/	P	
		PBBs	P	/	/	P	
		PBDEs	P	/	/	P	
		DEHP	/	P	/	P	
		DBP	/	P	/	P	
		BBP	/	P	/	P	
19	Silvery metal pin	Cd	P	/	/	P	Apr. 11, 2022
		Cr(VI)	P	/	/	P	
		Hg	P	/	/	P	
		Pb	P	/	/	P	
		PBBs	/	/	/	/	
		PBDEs	/	/	/	/	
		DEHP	/	/	/	/	
		DBP	/	/	/	/	
		BBP	/	/	/	/	
20	Black plastic shell	Cd	P	/	/	P	Apr. 11, 2022
		Cr(VI)	P	/	/	P	
		Hg	P	/	/	P	
		Pb	P	/	/	P	
		PBBs	D	/	N.D.	P	
		PBDEs	D	/	N.D.	P	
		DEHP	/	P	/	P	
		DBP	/	P	/	P	
		BBP	/	P	/	P	
DIBP	/	P	/	P			



No.	COMPONENTS	Item	Results of EDXRF (P/F/D)	Screen results of PHTH	Results of chemical testing (mg/kg)	Conclusion (P/F)	Sample submitted/ Resubmitted date
21	Silvery metal sheet	Cd	P	/	/	P	Apr. 11, 2022
		Cr(VI)	D	/	<0.10**	P	
		Hg	P	/	/	P	
		Pb	P	/	/	P	
		PBBs	/	/	/	/	
		PBDEs	/	/	/	/	
		DEHP	/	/	/	/	
		DBP	/	/	/	/	
		BBP	/	/	/	/	
		DIBP	/	/	/	/	
22	Soldering tin	Cd	P	/	/	P	Apr. 11, 2022
		Cr(VI)	P	/	/	P	
		Hg	P	/	/	P	
		Pb	P	/	/	P	
		PBBs	/	/	/	/	
		PBDEs	/	/	/	/	
		DEHP	/	/	/	/	
		DBP	/	/	/	/	
		BBP	/	/	/	/	
		DIBP	/	/	/	/	
23	White label paper	Cd	P	/	/	P	Apr. 11, 2022
		Cr(VI)	P	/	/	P	
		Hg	P	/	/	P	
		Pb	P	/	/	P	
		PBBs	P	/	/	P	
		PBDEs	P	/	/	P	
		DEHP	/	P	/	P	
		DBP	/	P	/	P	
		BBP	/	P	/	P	
		DIBP	/	P	/	P	
24	Black plastic screw ring shell	Cd	P	/	/	P	Apr. 11, 2022
		Cr(VI)	P	/	/	P	
		Hg	P	/	/	P	
		Pb	P	/	/	P	
		PBBs	P	/	/	P	
		PBDEs	P	/	/	P	
		DEHP	/	P	/	P	
		DBP	/	P	/	P	
		BBP	/	P	/	P	
		DIBP	/	P	/	P	



No.	COMPONENTS	Item	Results of EDXRF (P/F/D)	Screen results of PHTH	Results of chemical testing (mg/kg)	Conclusion (P/F)	Sample submitted/ Resubmitted date
25	Black plastic plug	Cd	P	/	/	P	Apr. 11, 2022
		Cr(VI)	P	/	/	P	
		Hg	P	/	/	P	
		Pb	P	/	/	P	
		PBBs	P	/	/	P	
		PBDEs	P	/	/	P	
		DEHP	/	P	/	P	
		DBP	/	P	/	P	
		BBP	/	P	/	P	
		DIBP	/	P	/	P	
26	Silvery metal shell	Cd	P	/	/	P	Apr. 11, 2022
		Cr(VI)	D	/	<0.10**	P	
		Hg	P	/	/	P	
		Pb	P	/	/	P	
		PBBs	/	/	/	/	
		PBDEs	/	/	/	/	
		DEHP	/	/	/	/	
		DBP	/	/	/	/	
		BBP	/	/	/	/	
		DIBP	/	/	/	/	
27	Silvery metal contact pin	Cd	P	/	/	P	Apr. 11, 2022
		Cr(VI)	P	/	/	P	
		Hg	P	/	/	P	
		Pb	P	/	/	P	
		PBBs	/	/	/	/	
		PBDEs	/	/	/	/	
		DEHP	/	/	/	/	
		DBP	/	/	/	/	
		BBP	/	/	/	/	
		DIBP	/	/	/	/	
28	Red silicone ring	Cd	P	/	/	P	Apr. 11, 2022
		Cr(VI)	P	/	/	P	
		Hg	P	/	/	P	
		Pb	P	/	/	P	
		PBBs	P	/	/	P	
		PBDEs	P	/	/	P	
		DEHP	/	P	/	P	
		DBP	/	P	/	P	
		BBP	/	P	/	P	
		DIBP	/	P	/	P	



No.	COMPONENTS	Item	Results of EDXRF (P/F/D)	Screen results of PHTH	Results of chemical testing (mg/kg)	Conclusion (P/F)	Sample submitted/ Resubmitted date
29	Red plastic outer jacket	Cd	P	/	/	P	Apr. 11, 2022
		Cr(VI)	P	/	/	P	
		Hg	P	/	/	P	
		Pb	P	/	/	P	
		PBBs	P	/	/	P	
		PBDEs	P	/	/	P	
		DEHP	/	P	/	P	
		DBP	/	P	/	P	
		BBP	/	P	/	P	
		DIBP	/	P	/	P	
30	Silvery metal wire core	Cd	P	/	/	P	Apr. 11, 2022
		Cr(VI)	P	/	/	P	
		Hg	P	/	/	P	
		Pb	P	/	/	P	
		PBBs	/	/	/	/	
		PBDEs	/	/	/	/	
		DEHP	/	/	/	/	
		DBP	/	/	/	/	
		BBP	/	/	/	/	
		DIBP	/	/	/	/	



Remark:

- (1) It is the result on total Br while test PBBs and PBDEs by EDXRF. It is the result on total Cr while test Hexavalent Chromium by EDXRF.
- (2) Results are obtained by EDXRF for primary screening, and chemical testing by ICP (for Cd, Pb, Hg), UV-VIS (Cr(VI)) and GCMS (for PBBs, PBDEs) is recommended to be performed, if the concentration exceeds the below warning value (unit:mg/kg)

Element	Polymer	Metal	Composite Materials
Cd	$P \leq 70-3\sigma < D < 130+3\sigma \leq F$	$P \leq 70-3\sigma < D < 130+3\sigma \leq F$	$P \leq 50-3\sigma < D < 150+3\sigma \leq F$
Pb	$P \leq 700-3\sigma < D < 1300+3\sigma \leq F$	$P \leq 700-3\sigma < D < 1300+3\sigma \leq F$	$P \leq 500-3\sigma < D < 1500+3\sigma \leq F$
Hg	$P \leq 700-3\sigma < D < 1300+3\sigma \leq F$	$P \leq 700-3\sigma < D < 1300+3\sigma \leq F$	$P \leq 500-3\sigma < D < 1500+3\sigma \leq F$
Br	$P \leq 300-3\sigma < D$	----	$P \leq 250-3\sigma < D$
Cr	$P \leq 700-3\sigma < D$	$P \leq 700-3\sigma < D$	$P \leq 500-3\sigma < D$

P = PASS; F = FAIL; D = DETECTED;

- (3) Screening results of 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.

TEST ITEM	Screening Limit (Unit: mg/kg)
Di-2-ethylhexyl phthalate(DEHP)	$P \leq 600 < D$
Dibutyl phthalate(DBP)	$P \leq 600 < D$
Benzylbutyl phthalate(BBP)	$P \leq 600 < D$
Diisobutyl phthalate(DIBP)	$P \leq 600 < D$

(4) Chemical test

TEST ITEM	Unit	MDL	Limit
Cd	mg/kg	2	100
Cr(VI)	mg/kg	Polymer and Composite Materials: 8	1000
	$\mu\text{g}/\text{cm}^2$	Metal: 0.10**	----
Hg	mg/kg	2	1000
Pb	mg/kg	2	1000
PBBs	mg/kg	5	1000
PBDEs	mg/kg	5	1000
Di-2-ethylhexyl phthalate(DEHP)	mg/kg	30	1000
Dibutyl phthalate(DBP)	mg/kg	30	1000
Benzylbutyl phthalate(BBP)	mg/kg	30	1000
Diisobutyl phthalate(DIBP)	mg/kg	30	1000

- (5) mg/kg = ppm; N.D. = NOT DETECTED (<MDL); MDL = Method Detection Limit

**= a. The sample is positive for CrVI if the CrVI concentration is greater than $0.13 \mu\text{g}/\text{cm}^2$. The sample coating is considered to contain CrVI

b. The sample is negative for CrVI if CrVI is ND (concentration less than $0.10 \mu\text{g}/\text{cm}^2$). The coating is considered a non-CrVI based coating

c. The result between $0.10 \mu\text{g}/\text{cm}^2$ and $0.13 \mu\text{g}/\text{cm}^2$ is considered to be inconclusive -unavoidable coating variations may influence the determination

- (6) * According to Article 6(c) of Annex III of European Council Directive 2011/65/EU, Lead in copper alloy allows containing of up to 4% lead by weight.

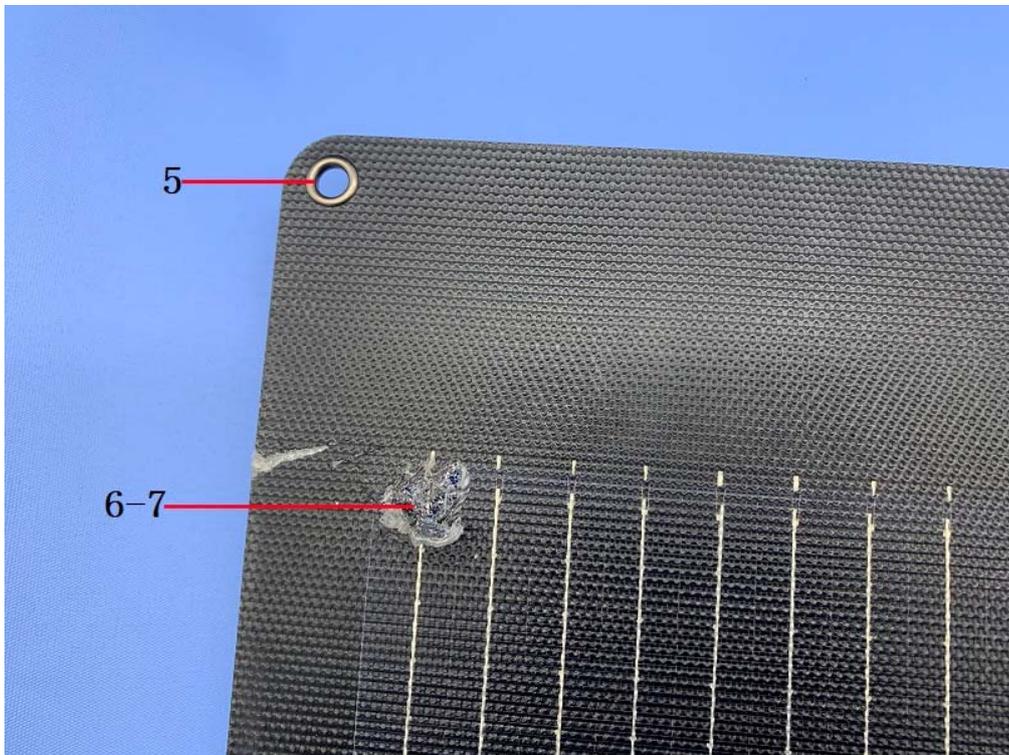
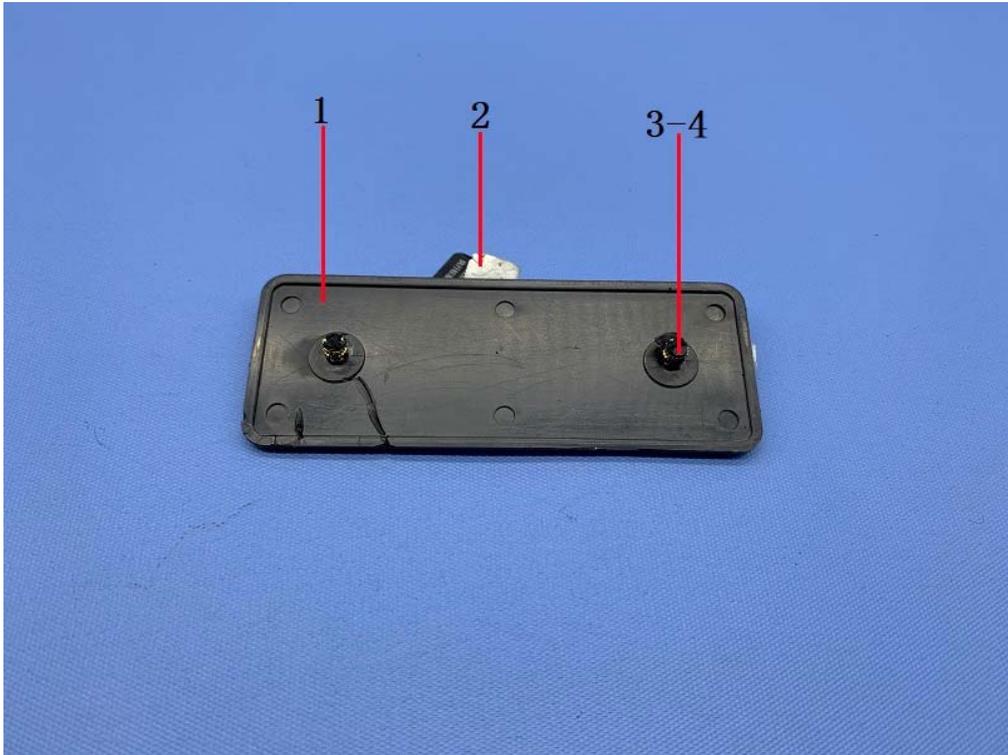
Sample photo



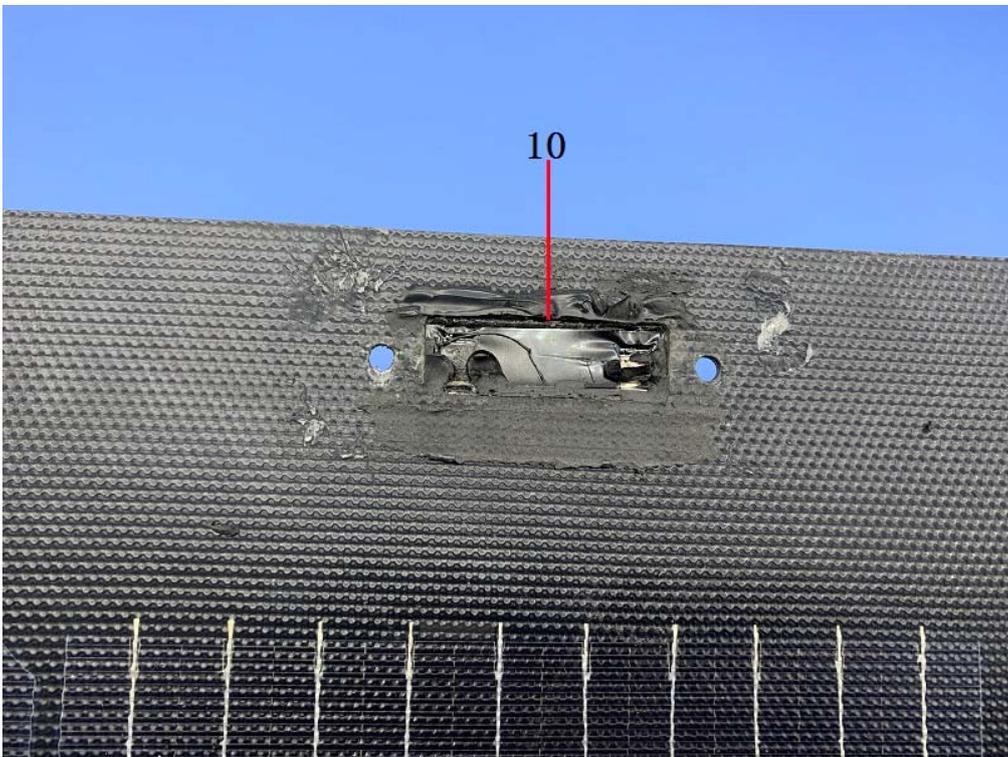
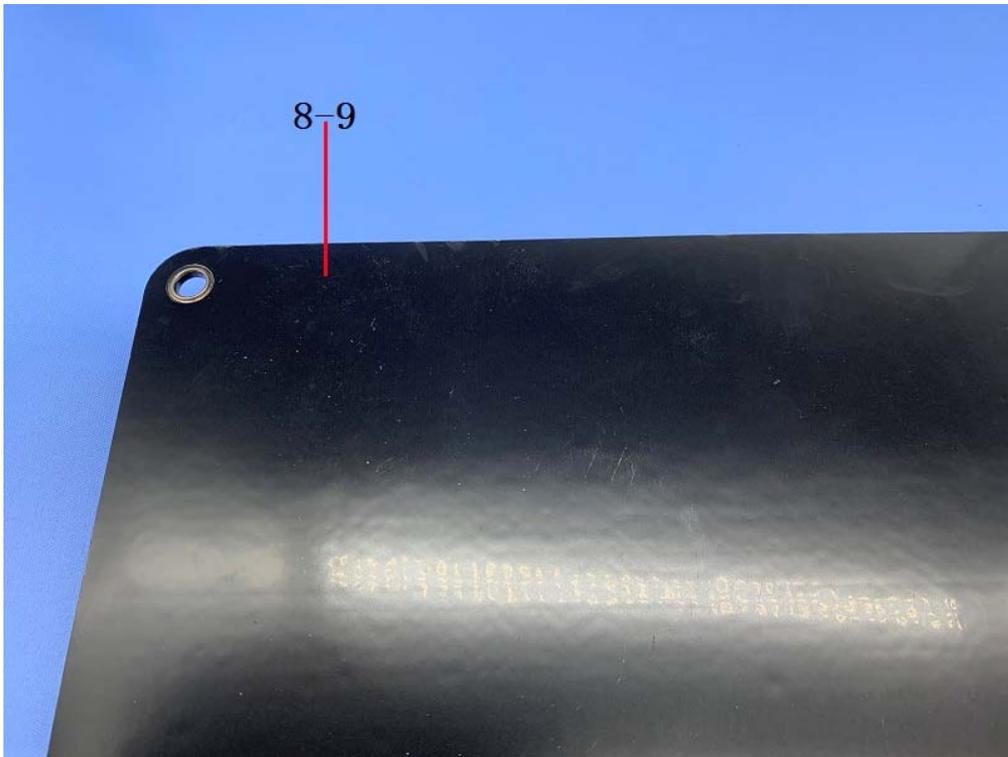
Sample photo



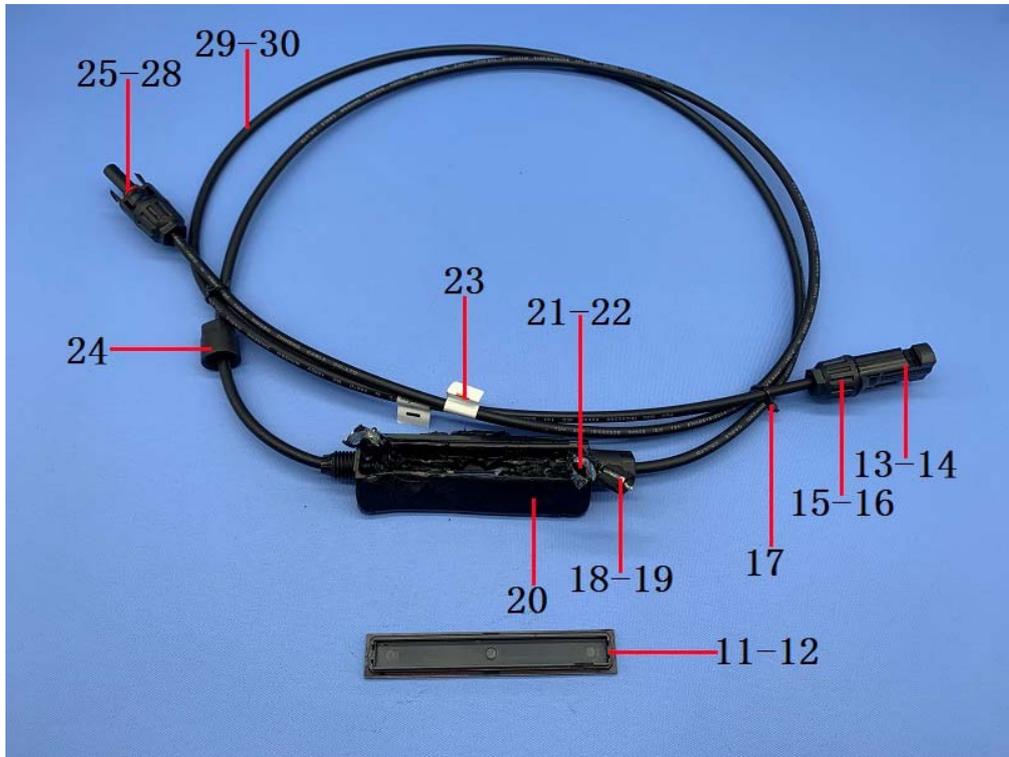
Detailed Split Chart



Detailed Split Chart



Detailed Split Chart



***** END OF REPORT *****



STATEMENT

1. The test report is invalid without stamp of laboratory.
2. The test report is invalid without signature of person(s) testing and authorizing.
3. The test report is invalid if erased and corrected.
4. Test results of the report is valid to the test samples if sampling by client.
5. “☆” item to be outside the scope of authorized by CNAS.
6. The report without the "CMA" stamp shall not have a certifying effect on the society.
7. The test report shall not be reproduced except in full, without written approval of the laboratory.
8. If there is any objection to report, the client should inform issuing laboratory within 15 days from the date of receiving test report.