

No.	Z2307WT8888-007576-Y
Total page	8

TEST REPORT

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Product Name : All Inorganic Perovskite Tandem solar cell

Type and Specification : 1.5 cm*1.5 cm

Test Category : Entrusted Test

Factory : South China University of Technology

Client: South China University of Technology


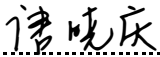



**China Electronic Product Reliability And
Environmental Testing Research Institute**

China CEPREI Laboratory



TEST REPORT

Report reference No	Z2307WT8888-007576-Y	
Total number of pages	8	
Test item description	All Inorganic Perovskite Tandem solar cell	
Trademark	/	
Model and/or type reference	1.5cm*1.5cm	
Factory's Name	South China University of Technology	
Address	No. 382, Waihuan East Road, Panyu District, Guangzhou	
Client's Name	South China University of Technology	
Address	No. 382, Waihuan East Road, Panyu District, Guangzhou	
Testing Laboratory Name	China CEPREI Laboratory/ China Electronic Product Reliability and Environmental Testing Research Institute	
Address	No.78, West of Zhucun Road Zhucun Street, Zengcheng District, Guangzhou, Guangdong, China.	
Testing location	No. 382, Waihuan East Road, Panyu District, Guangzhou	
Test specification		
Standard	Client's requirement	
Test category	Entrusted Test	
Number of test item.....	1	
Date of receipt of test item	2023.07.31	
Date(s) of performance of test.....	2023.07.31	
Ambient Condition.....	15℃~35℃, 45%~75%, 86kPa~106kPa	
Test Instruments and Equipment.....	See Equipment List of This Report.	
Summary of Testing and Conclusions		
This test is inconclusive.		
Tested by (printed name and signature)	Miao Zongbing (缪宗兵)	
Reviewed by (printed name and signature)	Tang Xiaoqing (唐晓庆)	
Approved by (printed name and signature)	Hu Yanfei (胡妍飞)	
Date of issue.....	2023-08-04	

Test case verdicts	
Test case does not apply to the test object.....:	N/A
Test item does meet the requirement(Pass)	P
Test item does not meet the requirement(Fail).....:	F
General remarks	
<p>1. Report without “specific stamp” of inspection organization or the authority will be regarded as invalid.</p> <p>2. Duplicated report without original “specific stamp” of inspection organization or the authority will be regarded as invalid.</p> <p>3. Report without the signatures of Tester, Reviewer or Approval will be regarded as invalid.</p> <p>4. Test report if altered will be regarded as invalid.</p> <p>5. Any dispute about the report must be submitted to inspection organization within 15 days upon report received, it will be rejected if out of the period.</p> <p>6. Generally, the entrusted test only responsible for the samples.</p>	
General product information:	
The test sample is a All Inorganic Perovskite Tandem solar cell.	
Testing Laboratory Contact Info:	
China CEPREI Laboratory/ China Electronic Product Reliability and Environmental Testing Research Institute Address: No. 78, Zhucun Avenue West, Zhucun street, Zengcheng District, Guangzhou, Guangdong, China. Postcode: 511370 TEL: 020-85131039,market@ceprei.biz FAX: +86-020-85131313 Enquiry: +86-20-85131123, info@ceprei.biz Complaint: +86-20-85131208, +86-20-87236881	

Photos

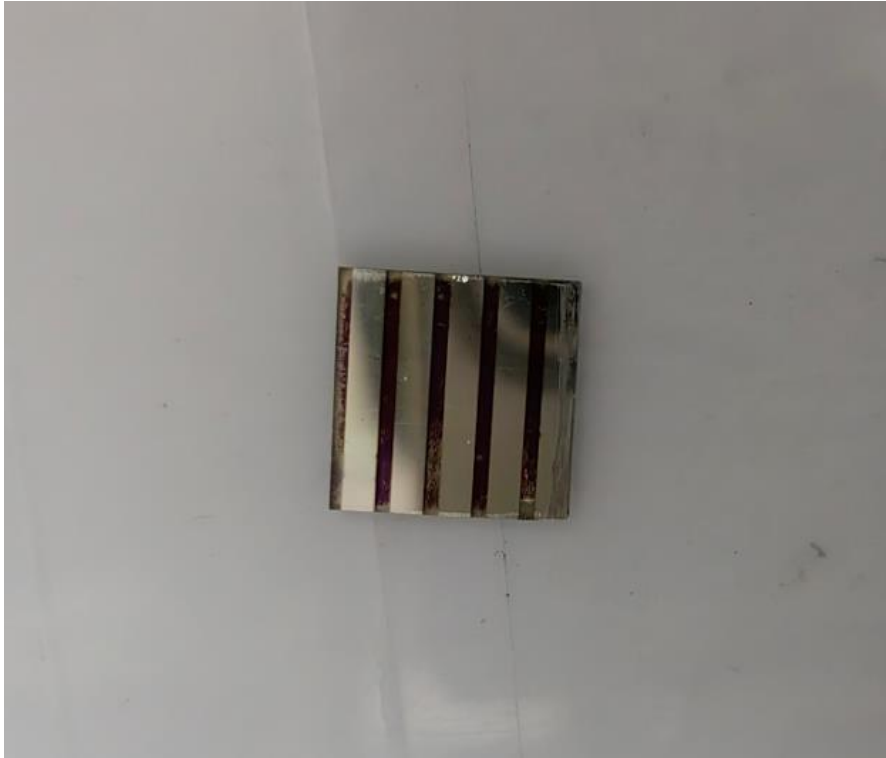


Figure 1. Photograph of the All Inorganic Perovskite Tandem solar cell. (front)

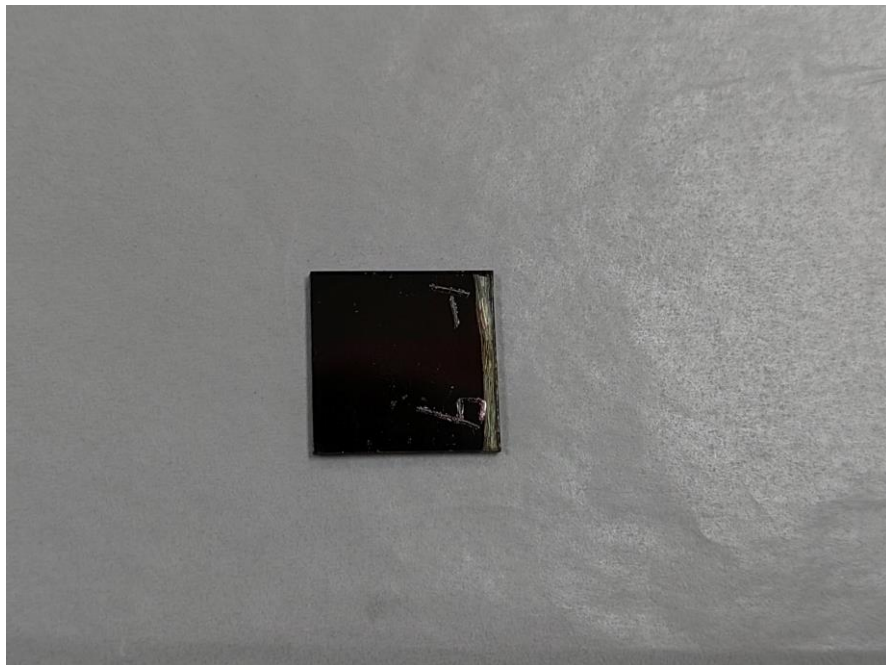


Figure 2. Photograph of the All Inorganic Perovskite Tandem solar cell. (back)

Photos

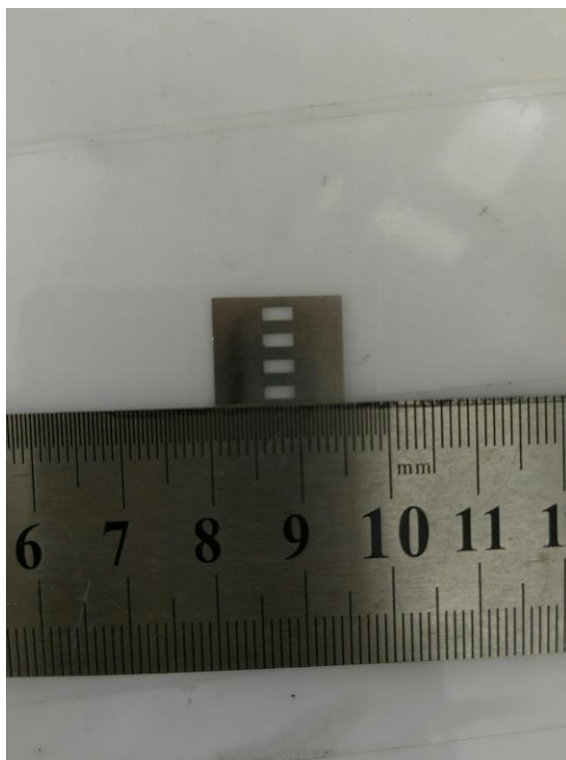


Figure 3. Photograph of the mask



Figure 4. Photograph of the All Inorganic Perovskite Tandem solar cell and Mask

No.	Test Items	Unit	Test conditions or Requirement	Test Result
1.	Voc	V	a. The tested device is unencapsulated and tested in an argon-filled glovebox, b. Mask area 0.0525cm ² , c. By using the standard solar cell to calibrate the solar simulator's irradiance to 100 mW/cm ² , d. Scan Direction: Reverse: +2.2 V to -0.2 V, Stepping: 0.02 V e. Delay time: 1 ms.	1.895
2.	Isc	mA		0.759
3.	Jsc	mA/cm ²		14.457
4.	Pmax	mW		1.150
5.	Vmax	V		1.62
6.	Imax	mA		0.71
7.	Fill Factor	%		79.954
8.	Efficiency	%		21.923

TEST PHOTO

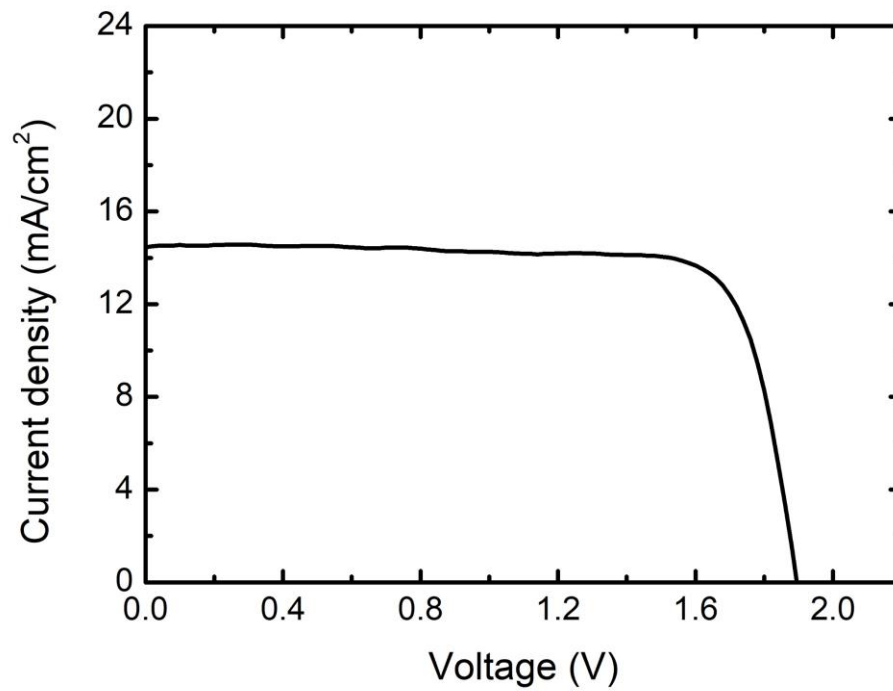


Figure 1. J-V curve of All Inorganic Perovskite Tandem solar cell.

List of test equipments

No.	Test equipment	Model	Serial No.	Date
1.	Solar Simulator	Enlitech	SSL01700700	2023.07.10-2024.07.09
2.	Digital Source Meter	2400	H6043-22CHRL BLK	2023.07.10-2024.07.09
