

中国认可
检测
TESTING
CNAS L2338

TEST REPORT

Report No: PWQC-WT-P23022421-2R

Sample Name : Photovoltaic cell

Client : Tsinghua University

Client Address : 30 Shuangqing Rd, Hai Dian, Beijing

Type of Project : Consignation

PHOTOVOLTAIC AND WIND POWER SYSTEMS QUALITY TEST CENTER, IEE,
CHINESE ACADEMY OF SCIENCES

February, 28, 2023



PHOTOVOLTAIC AND WIND POWER SYSTEMS QUALITY TEST CENTER, IEE,
CHINESE ACADEMY OF SCIENCES

Report No: PWQC-WT-P23022421-2R

Testing information: Date: February, 24, 2023 Location: No.6 Bei-er-tiao, Zhongguancun, Haidian district, Beijing, China Environmental conditions: 24.6℃, 29.5%RH		
Testing items: Measurement of photovoltaic current-voltage characteristics		
Standards: IEC 60904-1: 2006 Photovoltaic (PV) devices — Part 1: Measurement of photovoltaic current-voltage characteristics		
Equipments:		
Name	S/N	Expired date
Solar simulator	LE106-04	2023-06-15
Source Meter	LE177-01	2023-02-27
Digital millimeter	LE126-01	2024-02-22
Reference cell	J-CH04	2023-11-09

Edited

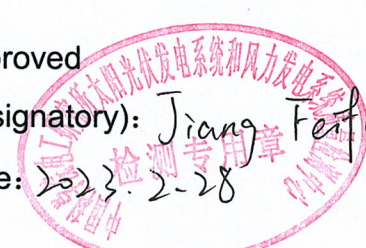
by(signatory): *Yang lei*

Date: 2023-2-28

Approved

by(signatory): *Jiang Feifei*

Date: 2023-2-28



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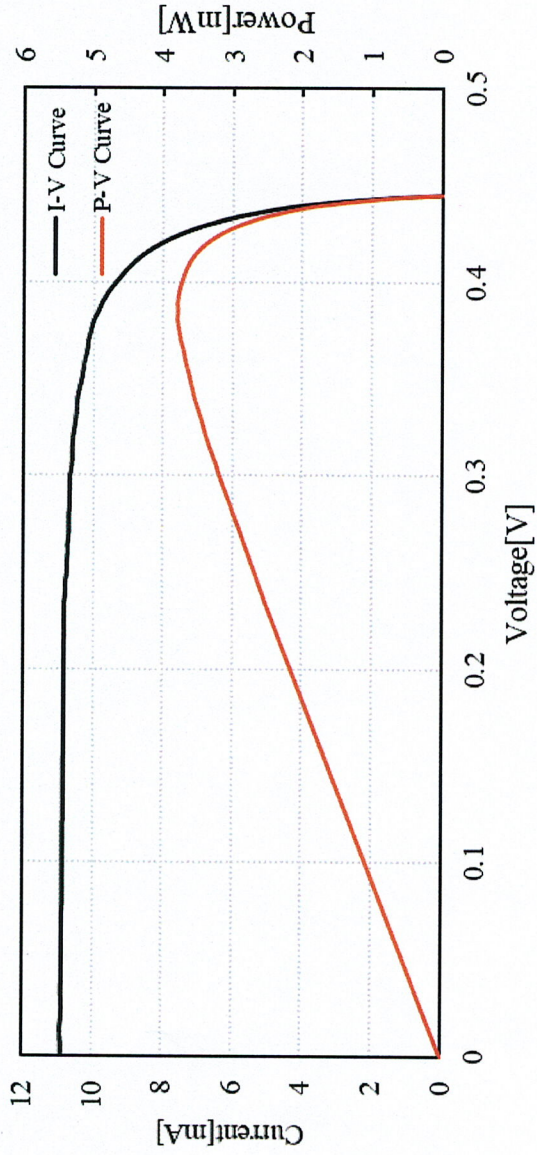
Sample code	DC2023a008
Sample S/N	K-60
Type	Single Junction Kesterite Solar Cell
Designated area	0.30cm ² The designated area was provided by the client.

Items of testing	Measurement of photovoltaic current-voltage characteristics				
Sample code	DC2023a008				
Results	Isc (mA)	Jsc (mA/ cm ²)	Voc (V)	Pm (mW)	File A202302241 63920
	10.882	36.273	0.445	3.801	
	Ipm (mA)	Vpm (V)	FF (%)	E_{ff} (%)	
	10.003	0.380	78.56	12.67	
Measurement uncertainty:					
U _{95(Isc)} =1.9% (k=2)					
U _{95(Voc)} =1.8% (k=2)					
U _{95(Pm)} =2.5% (k=2)					



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STC



Type Single Junction Kesterite Solar Cell
 Ser.No DC2023a008

Area 0.3000 cm²
 Isc 10.882 mA
 Jsc 36.273 mA/cm²
 Voc 0.445 V
 FF 78.56 %
 Pm 3.801 mW
 E_{ff} 12.67 %
 Ipm 10.003 mA
 Vpm 0.380 V

Voltage Sweep Reverse
 Sweep time 1.41 s
 Temp 25 °C
 Irr 100 mW/cm²
 File A20230224163920

— End of Report —

NOTICE

1. The test result in this report relate only to the sample tested.
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6. Client could contact us for any questions within 15 days since the date when you received this report.

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