

Test report for Circular PV Alliance

2110-CPV-001

Monday, April 4, 2022

Client

Megan Jones
Circular PV Alliance
Australia

Consultant

Michelle McCann

Client reference:

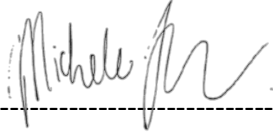
2110-CPV-001

Report release:

Release 1

Approval

Report approved by Michelle McCann
Date: Monday, 4 April 2022



Michelle McCann
Partner & Director

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Result summary

14 panels were tested from a batch sent from Dubbo. These had been removed from decommissioned systems and stored undercover for various amounts of time. A further 10 modules were donated by PV Lab. These were from an operating system in Canberra that was tested for hail damage, and that was then due to be replaced as a consequence. All 24 modules had an STC power test, electroluminescence image and analysis, wet leakage test and a visual inspection.

For each panel, the results of the testing can be summarised as X/Y W / Grade Z. The X/Y W refers to the number of Watts measured at P_{mpp} (X) versus the nameplate rating (Y). The grade A, B or C is an assessment of the damage visible under electroluminescence. Panels that failed the visual inspection, electroluminescence and/or the wet leakage test were not graded.

All panels passed the visual inspection.

STC power measurements showed that all modules measured below nameplate rating. The average of all modules was -6.9% with a range of -3.4% to -18.1% below the nameplate.

Electroluminescence imaging showed microcracks or other features in 19 of the 24 panels. Some panels showed signs of degradation and the existence of critical microcracks. Three panels failed due to poor electroluminescence images and there were a total of 11 A-class panels.

All panels passed the wet leakage test.

The final result for all panels is shown in the table below.

Final Results

PV Lab module ID	Measured Watts/Panel Rating (W)	Resultant Grade
2110-CPV-001-001	205/250 W	B
2110-CPV-001-002	219/250 W	A
2110-CPV-001-003	219/250 W	A
2110-CPV-001-004	Fail	FAIL
2110-CPV-001-005	Fail	FAIL
2110-CPV-001-006	220/235 W	B
2110-CPV-001-007	Fail	FAIL
2110-CPV-001-008	241/255 W	C
2110-CPV-001-009	239/255 W	C
2110-CPV-001-010	232/250 W	B
2110-CPV-001-011	234/250 W	C
2110-CPV-001-012	234/250 W	B
2110-CPV-001-013	228/250 W	C
2110-CPV-001-014	232/250 W	C
2110-CPV-001-015	239/250 W	A
2110-CPV-001-016	241/250 W	A
2110-CPV-001-017	239/250 W	A
2110-CPV-001-018	240/250 W	A
2110-CPV-001-019	232/250 W	A
2110-CPV-001-020	236/250 W	A
2110-CPV-001-021	236/250 W	C
2110-CPV-001-022	240/250 W	A
2110-CPV-001-023	239/250 W	A
2110-CPV-001-024	241/250 W	A

Test overview

The table below shows the number of modules that underwent each test.

Test	Number of modules	Notes
STC power test	24	
Electroluminescence test	24	
Wet leakage	24	Connectors not submerged for panels 010 to 014

Testing details

Location of testing	Australian National University, Canberra
Date/s received	03/11/2021 & 17/11/2021
Condition on arrival	The modules were not in original packaging
Documentation in packaging	None

Module details

Selection of modules

Modules 001-014 were supplied by the client. Modules 015-024 were supplied by PV Lab.

Module type

PV Lab module ID	Manufacturer	Model number
2110-CPV-001-001	Ningbo Qixin Solar Electrical Appliance Co., Ltd	SL250CE-48M
2110-CPV-001-002	Ningbo Qixin Solar Electrical Appliance Co., Ltd	SL250CE-48M
2110-CPV-001-003	Ningbo Qixin Solar Electrical Appliance Co., Ltd	SL250CE-48M
2110-CPV-001-004	LIGHT WAY	LW235(29)P1650X990
2110-CPV-001-005	LIGHT WAY	LW235(29)P1650X990
2110-CPV-001-006	LIGHT WAY	LW235(29)P1650X990
2110-CPV-001-007	REC Peak Energy Services	REC255PE
2110-CPV-001-008	REC Peak Energy Services	REC255PE
2110-CPV-001-009	REC Peak Energy Services	REC255PE
2110-CPV-001-010	Trina Solar	TSM-250PC05A
2110-CPV-001-011	Trina Solar	TSM-250PC05A
2110-CPV-001-012	Trina Solar	TSM-250PC05A
2110-CPV-001-013	Trina Solar	TSM-250PC05A
2110-CPV-001-014	Trina Solar	TSM-250PC05A
2110-CPV-001-015	ReneSola Jiangsu Ltd	JC250M-24/Bb
2110-CPV-001-016	ReneSola Jiangsu Ltd	JC250M-24/Bb
2110-CPV-001-017	ReneSola Jiangsu Ltd	JC250M-24/Bb
2110-CPV-001-018	ReneSola Jiangsu Ltd	JC250M-24/Bb
2110-CPV-001-019	ReneSola Jiangsu Ltd	JC250M-24/Bb
2110-CPV-001-020	ReneSola Jiangsu Ltd	JC250M-24/Bb
2110-CPV-001-021	ReneSola Jiangsu Ltd	JC250M-24/Bb
2110-CPV-001-022	ReneSola Jiangsu Ltd	JC250M-24/Bb
2110-CPV-001-023	ReneSola Jiangsu Ltd	JC250M-24/Bb
2110-CPV-001-024	ReneSola Jiangsu Ltd	JC250M-24/Bb

Label Rating

PV Lab module ID	Label values			
	V _{oc} (V)	I _{sc} (A)	P _{mpp} (W)	Tolerance
2110-CPV-001-001	59.9	5.26	250	±5%
2110-CPV-001-002	59.9	5.26	250	±5%
2110-CPV-001-003	59.9	5.26	250	±5%
2110-CPV-001-004	37.2	8.45	235	±3%
2110-CPV-001-005	37.2	8.45	235	±3%
2110-CPV-001-006	37.2	8.45	235	±3%
2110-CPV-001-007	37.6	8.95	255	-
2110-CPV-001-008	37.6	8.95	255	-
2110-CPV-001-009	37.6	8.95	255	-
2110-CPV-001-010	38.0	8.79	250	+ 3% 0
2110-CPV-001-011	38.0	8.79	250	+ 3% 0
2110-CPV-001-012	38.0	8.79	250	+ 3% 0
2110-CPV-001-013	38.0	8.79	250	+ 3% 0
2110-CPV-001-014	38.0	8.79	250	+ 3% 0
2110-CPV-001-015	37.4	8.83	250	0/+5
2110-CPV-001-016	37.4	8.83	250	0/+5
2110-CPV-001-017	37.4	8.83	250	0/+5
2110-CPV-001-018	37.4	8.83	250	0/+5
2110-CPV-001-019	37.4	8.83	250	0/+5
2110-CPV-001-020	37.4	8.83	250	0/+5
2110-CPV-001-021	37.4	8.83	250	0/+5
2110-CPV-001-022	37.4	8.83	250	0/+5
2110-CPV-001-023	37.4	8.83	250	0/+5
2110-CPV-001-024	37.4	8.83	250	0/+5

Numbering

The table below shows the relationship between the PV Lab number and the serial number for the modules.

PV Lab module ID	Serial number
2110-CPV-001-001	QXXSM250-1011-5635
2110-CPV-001-002	QXXSM250-1011-5650
2110-CPV-001-003	QXXSM250-1011-5578
2110-CPV-001-004	1110122020
2110-CPV-001-005	1110121325
2110-CPV-001-006	1110121697
2110-CPV-001-007	2003609384
2110-CPV-001-008	2003609524
2110-CPV-001-009	2003609523
2110-CPV-001-010	9140803900352
2110-CPV-001-011	9140803900520
2110-CPV-001-012	9140803900285
2110-CPV-001-013	9140803900577
2110-CPV-001-014	9140803900286
2110-CPV-001-015	1C21549150112260609B
2110-CPV-001-016	321549141014160406B
2110-CPV-001-017	1C21549150112260626B
2110-CPV-001-018	1C21549150112260687B
2110-CPV-001-019	1C21549150113270058B
2110-CPV-001-020	1C21549150112260646B
2110-CPV-001-021	321549141014160046B
2110-CPV-001-022	1C21549150112260453B
2110-CPV-001-023	1C21549150112260418B
2110-CPV-001-024	321549141014160017B

Visual inspection tests

Inspection conditions

The table below shows test conditions for the visual inspection tests.

Date of Inspection	04/01/2022 and onsite Dubbo (these results are not included in this report)
Operator	Tim Bray and Gabriel Nelson
Explanation of test	IEC 61215-2 by MQT 01. The purpose is to detect any visual defects in the module that may cause a risk of reliability loss and document, with photographs, any such defects.
Inspection procedure	IEC 61215 MQT 01
Illumination	> 1,000 lux
Notes	There are no notes.

Inspection results

The table below details the results of the visual inspection. Panels 001-014 were tested by Megan Jones prior to shipment and results are not included here.

PV Lab Number	Number of Major Visual Defects	Pass / Fail*	Note
2110-CPV-001-001			
2110-CPV-001-002			
2110-CPV-001-003			
2110-CPV-001-004			
2110-CPV-001-005			
2110-CPV-001-006			
2110-CPV-001-007			
2110-CPV-001-008			
2110-CPV-001-009			
2110-CPV-001-010			
2110-CPV-001-011			
2110-CPV-001-012			
2110-CPV-001-013			
2110-CPV-001-014			
2110-CPV-001-015	-	PASS	Minor dent in backsheet, serial number sticker on backsheet worn away
2110-CPV-001-016	-	PASS	Serial number sticker on backsheet worn away
2110-CPV-001-017	-	PASS	Minor scuff marks in backsheet, serial number sticker on backsheet worn away
2110-CPV-001-018	-	PASS	Minor scratch (~14cm long) in backsheet, serial number sticker on backsheet worn away
2110-CPV-001-019	-	PASS	Serial number sticker on backsheet worn away
2110-CPV-001-020	-	PASS	-
2110-CPV-001-021	-	PASS	Minor dent in backsheet
2110-CPV-001-022	-	PASS	Serial number sticker on backsheet worn away
2110-CPV-001-023	-	PASS	Serial number sticker on backsheet worn away
2110-CPV-001-024	-	PASS	Serial number sticker on backsheet worn away



2110-CPV-001-015

*minor dent in backsheet



2110-CPV-001-018

*minor scratch (~14cm long) in backsheet



2110-CPV-001-017
*minor scuff marks in backsheet



2110-CPV-001-021
* minor dent in backsheet



2110-CPV-001-019
*example of serial number sticker on backsheet worn away



2110-CPV-001-024
*example of serial number sticker on backsheet worn away

STC Power measurement

Test conditions

The table below shows test conditions for the STC power tests.

Date of test	04/11/2021 and 30/11/2021
Operator	Tim Bray, Gabe Nelson
Explanation of test	STC power measurement determines the power output of the module under standard test conditions (STC). This is the label rating of the module. All measurements were done in accordance with IEC 60904-9 at STC. Corrections were made for any measured deviations from STC. A class AAA sun simulator was used.
Test procedure	IEC 61215 MQT 06.1
Reference cell	Serial Number: ISE001 / 07-2017
Measurement uncertainty	± 3%
Ambient temperature	23-27 °C
Notes	There are no notes.

Results

The table below shows the measured open-circuit voltage (V_{oc} in Volts), short-circuit current (I_{sc} in Amps) and power at the maximum power point (P_{mpp} in Watts) and the deviation of the STC power measurement from the label rating as a percentage of the label rating.

PV Lab Number	V_{oc} (V)	I_{sc} (A)	P_{mpp} (W)	ΔP_{mpp} (%)
2110-CPV-001-001	59.1	4.9	205	-18.1%
2110-CPV-001-002	59.0	5.0	219	-12.3%
2110-CPV-001-003	59.0	4.9	219	-12.2%
2110-CPV-001-004	36.8	8.0	217	-7.6%
2110-CPV-001-005	36.7	8.0	214	-9.1%
2110-CPV-001-006	36.9	8.0	220	-6.3%
2110-CPV-001-007	37.5	8.4	241	-5.4%
2110-CPV-001-008	37.3	8.5	241	-5.5%
2110-CPV-001-009	37.4	8.5	239	-6.2%
2110-CPV-001-010	37.0	8.6	232	-7.3%
2110-CPV-001-011	37.0	8.6	234	-6.4%
2110-CPV-001-012	37.1	8.6	234	-6.4%
2110-CPV-001-013	37.1	8.5	228	-8.7%
2110-CPV-001-014	37.0	8.4	232	-7.3%
2110-CPV-001-015	37.4	8.5	239	-4.5%
2110-CPV-001-016	37.5	8.5	241	-3.5%
2110-CPV-001-017	37.3	8.6	239	-4.4%
2110-CPV-001-018	37.4	8.5	240	-4.1%
2110-CPV-001-019	37.2	8.6	232	-7.2%
2110-CPV-001-020	37.3	8.3	236	-5.6%
2110-CPV-001-021	37.5	8.4	236	-5.6%
2110-CPV-001-022	37.3	8.6	240	-3.9%
2110-CPV-001-023	37.3	8.5	239	-4.6%
2110-CPV-001-024	37.6	8.5	241	-3.4%

Please note that as a result of rounding, values shown in ΔP_{mpp} may vary for modules with an apparently identical P_{mpp} measurement.

Electroluminescence tests

Test conditions

The table below shows test conditions for the electroluminescence (EL) tests.

Date of test	07/10/2021 & 04/11/2021
Operator	Tim Bray, Gabe Nelson
Explanation of test	Electroluminescence (EL) is a powerful tool for detecting damages at a cell level. Modules are subjected to a forward bias at I_{sc} and an image in the near IR is captured. Images are analysed for cracks and other features that are determined to be either likely critical or unlikely to be critical.
Test procedure	Internal procedure, based on IEC/TS 60904-13
Camera	Canon EOS 77D with Infra-Red Modification
Resolution	CMOS Sensor 24.2 Megapixels
Lens	EF-S 18-55mm f/3.5-5.6 II
ISO	See below table
Exposure	See below table
Aperture	4.5
Current Applied	$I = I_{sc}$ per label (see below table)
Ambient Light Conditions	Dark
Notes	There are no notes.

PV Lab Number	ISO	Exposure (s)	I _{sc} (A)
2110-CPV-001-001	640	270	5.26
2110-CPV-001-002	640	270	5.26
2110-CPV-001-003	640	270	5.26
2110-CPV-001-004	640	270	8.45
2110-CPV-001-005	640	270	8.45
2110-CPV-001-006	640	270	8.45
2110-CPV-001-007	400	240	8.95
2110-CPV-001-008	400	240	8.95
2110-CPV-001-009	400	240	8.95
2110-CPV-001-010	640	270	8.79
2110-CPV-001-011	640	270	8.79
2110-CPV-001-012	640	270	8.79
2110-CPV-001-013	640	270	8.79
2110-CPV-001-014	640	270	8.79
2110-CPV-001-015	1600	120	8.83
2110-CPV-001-016	1600	120	8.83
2110-CPV-001-017	1600	120	8.83
2110-CPV-001-018	1600	120	8.83
2110-CPV-001-019	1600	120	8.83
2110-CPV-001-020	1600	120	8.83
2110-CPV-001-021	1600	120	8.83
2110-CPV-001-022	1600	120	8.83
2110-CPV-001-023	1600	120	8.83
2110-CPV-001-024	1600	120	8.83

Notation

The table below shows the notation used when identifying cracks or other features in the electroluminescence images.

Mark	Description
NC	Crack (likely to be non-critical)
CC	Crack(s) (probably critical)
NF	Other known feature (likely to be non-critical)
CF	Other known feature (likely to be critical)
D	Degradation

Results summary

The table below details the results of the EL testing and the following pages show images with a partnered table detailing which cells (or regions) contain micro-cracks or other features.

PV Lab number	Crack (non-critical) (NC)	Critical Crack(s) (CC)	Known feature (NF)	Critical feature (CF)	Degradation (D)	Note
Number of affected cells / regions						
2110-CPV-001-001	4	1	1	-	-	B
2110-CPV-001-002	3	-	-	-	-	A
2110-CPV-001-003	7	-	1	-	-	A
2110-CPV-001-004	3	18	-	-	-	FAIL
2110-CPV-001-005	9	23	1	-	-	FAIL
2110-CPV-001-006	3	2	-	-	-	B
2110-CPV-001-007	7	5	-	-	-	FAIL
2110-CPV-001-008	3	-	-	-	16	C
2110-CPV-001-009	1	-	-	-	11	C
2110-CPV-001-010	1	-	5	-	8	B
2110-CPV-001-011	2	2	8	-	8	C
2110-CPV-001-012	-	-	-	-	7	B
2110-CPV-001-013	1	1	2	-	9	C
2110-CPV-001-014	-	-	6	-	10	C
2110-CPV-001-015	2	-	2	-	-	A
2110-CPV-001-016	-	-	-	-	-	A
2110-CPV-001-017	1	-	-	-	-	A
2110-CPV-001-018	2	-	-	-	-	A
2110-CPV-001-019	2	-	-	-	-	A
2110-CPV-001-020	-	-	1	-	-	A
2110-CPV-001-021	2	-	-	2	-	C
2110-CPV-001-022	2	-	1	-	-	A
2110-CPV-001-023	1	-	-	-	-	A
2110-CPV-001-024	-	-	-	-	-	A

Notes:

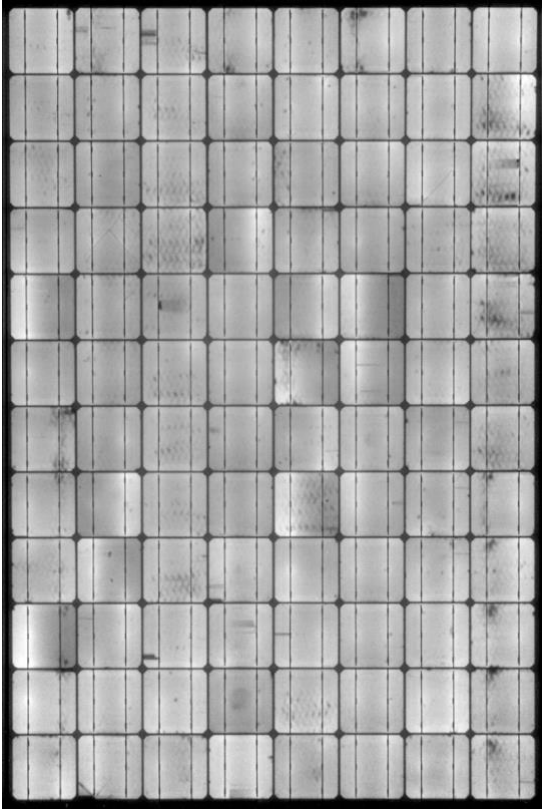


Figure 1: 2110-CPV-001-001

	A	B	C	D	E	F	G	H
1								
2					NC			
3							NC	
4		CC						
5			NF					
6								
7								
8								
9								
10								
11	NC							
12		NC						

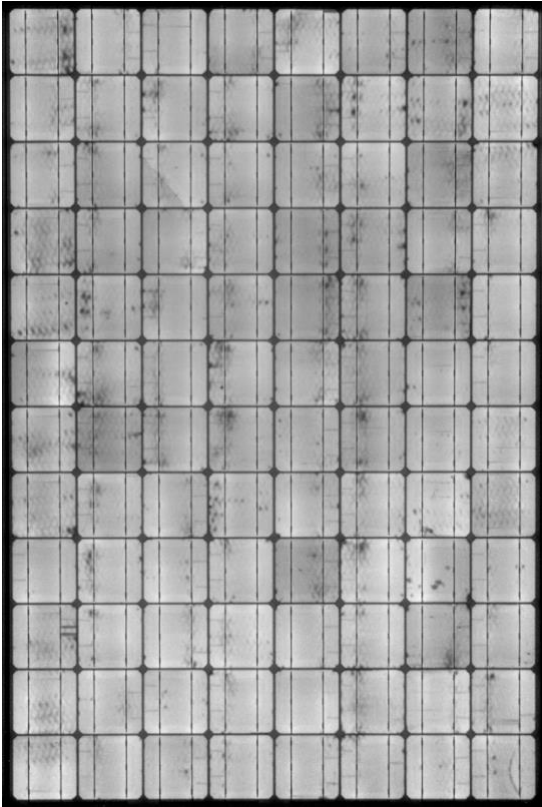


Figure 2: 2110-CPV-001-002

	A	B	C	D	E	F	G	H
1								
2								
3			NC					
4								
5								
6								
7								
8							NC	
9					NC			
10								
11								
12								

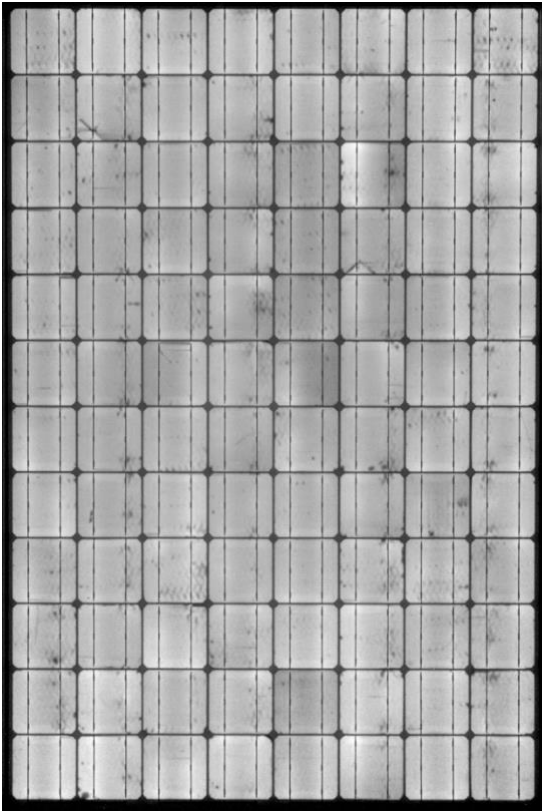


Figure 3: 2110-CPV-001-003

	A	B	C	D	E	F	G	H
1								
2	NC	NC						
3								
4						NC		
5								
6			NC					
7				NC				NC
8		NF					NC	
9								
10								
11								
12								

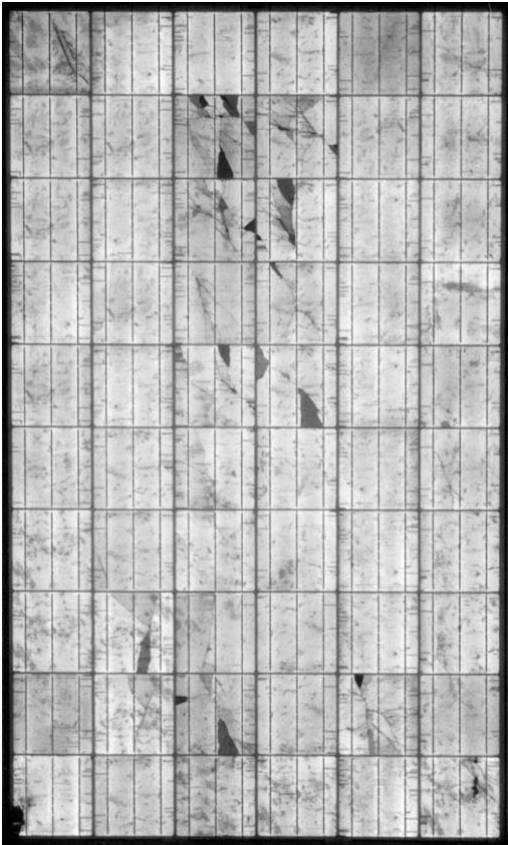


Figure 4: 2110-CPV-001-004

	A	B	C	D	E	F
1	CC					
2			CC	CC		
3			CC	CC		
4			CC	CC		
5			CC	CC		
6		NC	CC			CC
7		NC	CC			
8		CC	CC			
9		NC	CC		CC	
10	CC					CC

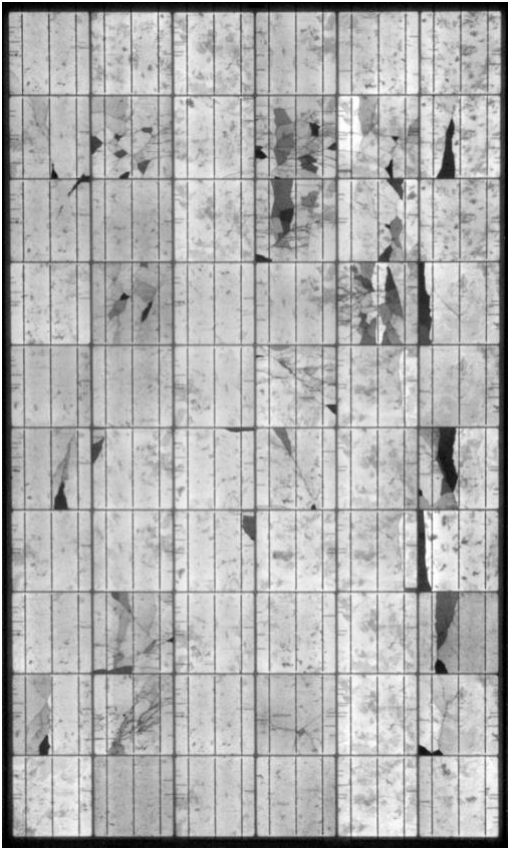


Figure 5: 2110-CPV-001-005

	A	B	C	D	E	F
1	NC					
2	CC	CC	NC	CC	CC	CC
3	NC NF			CC	CC	
4		CC			CC	CC
5				CC	NC	
6	CC	CC	NC	CC		CC
7	NC		CC		NC	CC
8		CC				CC
9	CC	CC		CC		CC
10					NC	NC

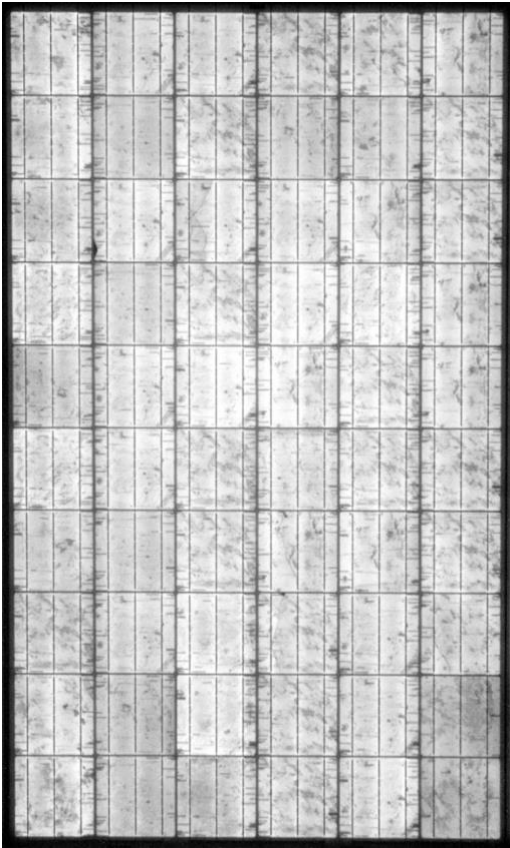


Figure 6: 2110-CPV-001-006

	A	B	C	D	E	F
1						
2						
3		NC	CC			
4						
5						
6						
7				CC		
8				NC		NC
9						
10						

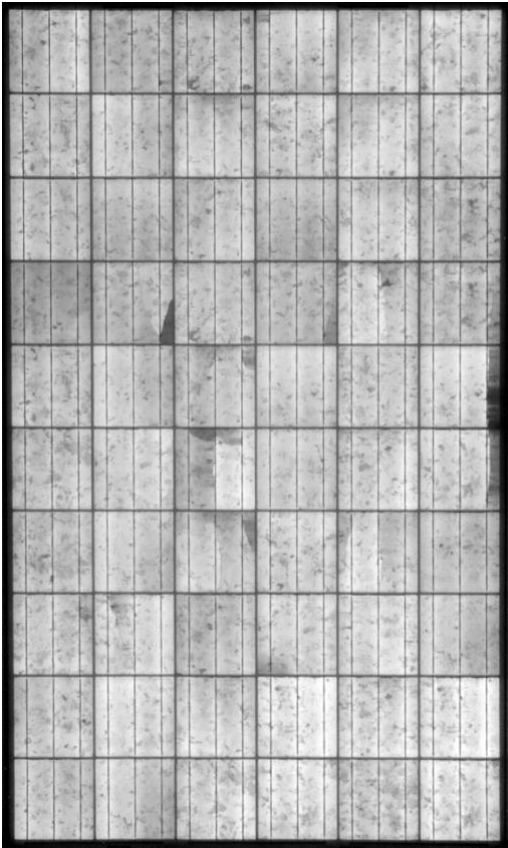


Figure 7: 2110-CPV-001-007

	A	B	C	D	E	F
1						
2						
3						
4		CC		NC	NC	NC
5			NC			CC
6		NC	CC			CC
7			CC		NC	
8		NC				
9						
10						

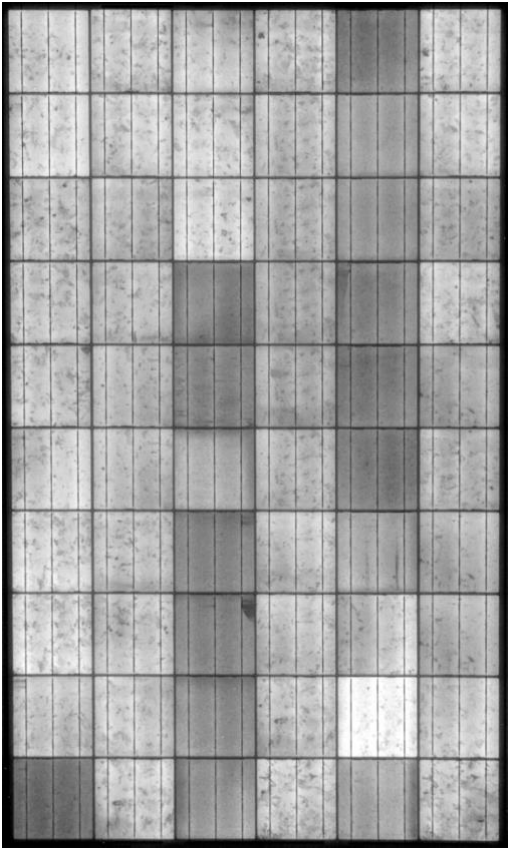


Figure 8: 2110-CPV-001-008

	A	B	C	D	E	F
1					D	
2					D	
3					D	
4			D		D NC	
5			D	NC	D	
6					D	
7			D		D	
8			D NC			
9			D		D	
10	D		D		D	

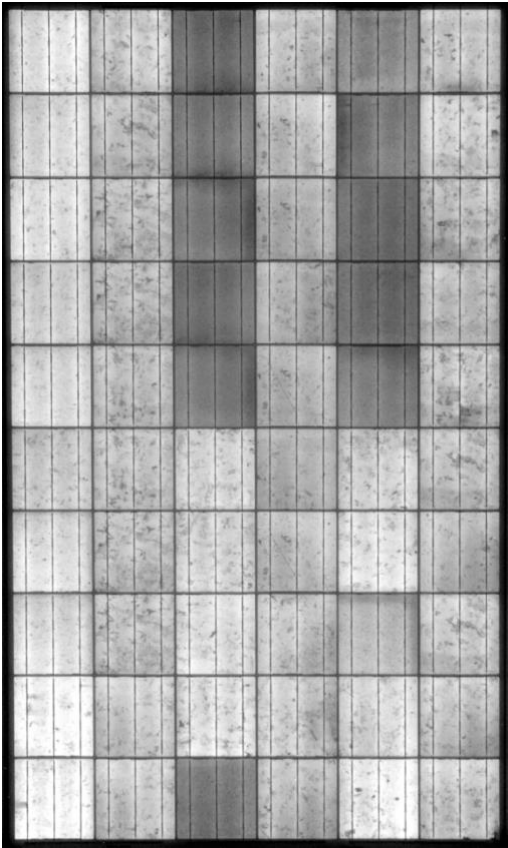


Figure 9: 2110-CPV-001-009

	A	B	C	D	E	F
1		NC	D		D	
2			D		D	
3			D		D	
4			D		D	
5			D		D	
6						
7						
8						
9						
10			D			

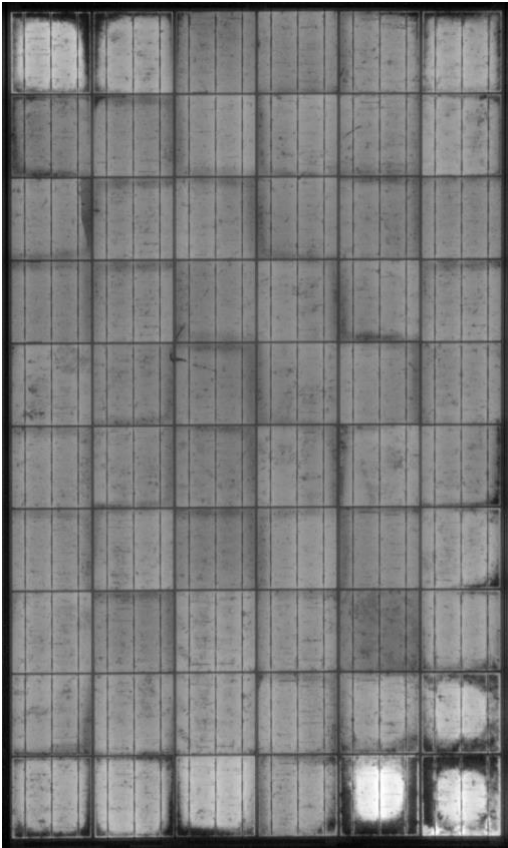


Figure 10: 2110-CPV-001-010

	A	B	C	D	E	F
1	D	D				
2				NF	NF	
3	NC					
4			NF			
5		NF	NF			
6						
7						
8						
9						D
10	D	D	D		D	D

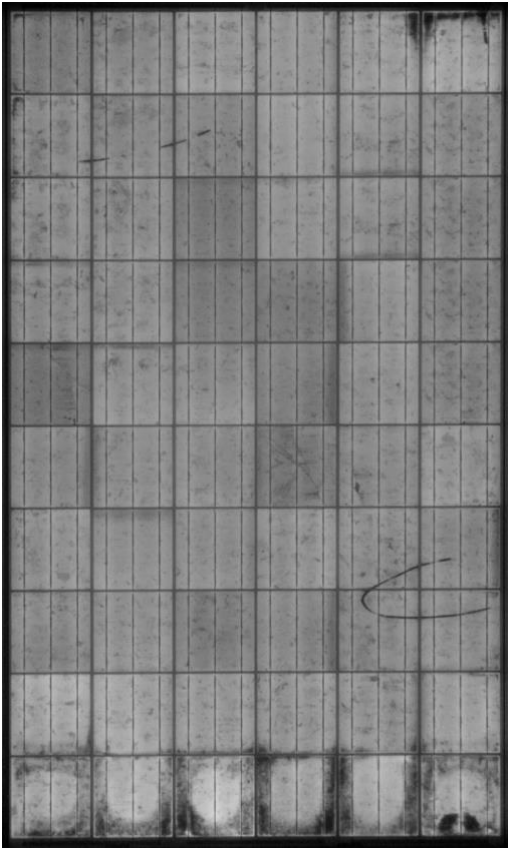


Figure 11: 2110-CPV-001-011

	A	B	C	D	E	F
1					D	D
2	NF	NF	NF			
3						
4	NC					
5	NC NF					
6				CC	CC	
7					NF	NF
8					NF	NF
9						
10	D	D	D	D	D	D

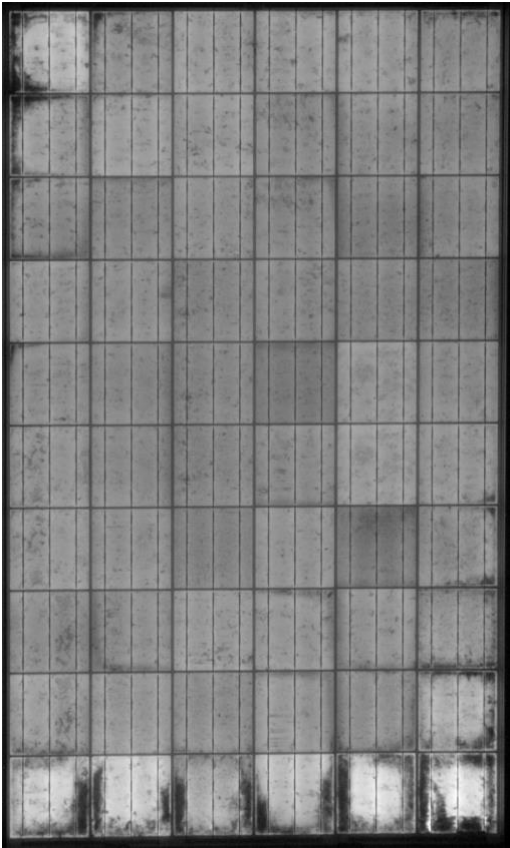


Figure 12: 2110-CPV-001-012

	A	B	C	D	E	F
1	D					
2						
3						
4						
5						
6						
7						
8						
9						
10	D	D	D	D	D	D

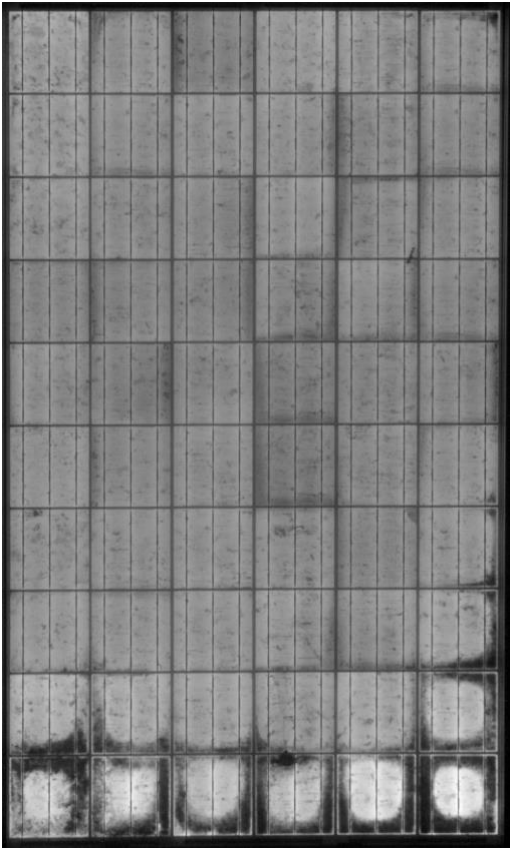


Figure 13: 2110-CPV-001-013

	A	B	C	D	E	F
1						
2						
3					NF	
4					NF	
5						
6						
7					NC	
8						D
9	D			CC		D
10	D	D	D	D	D	D

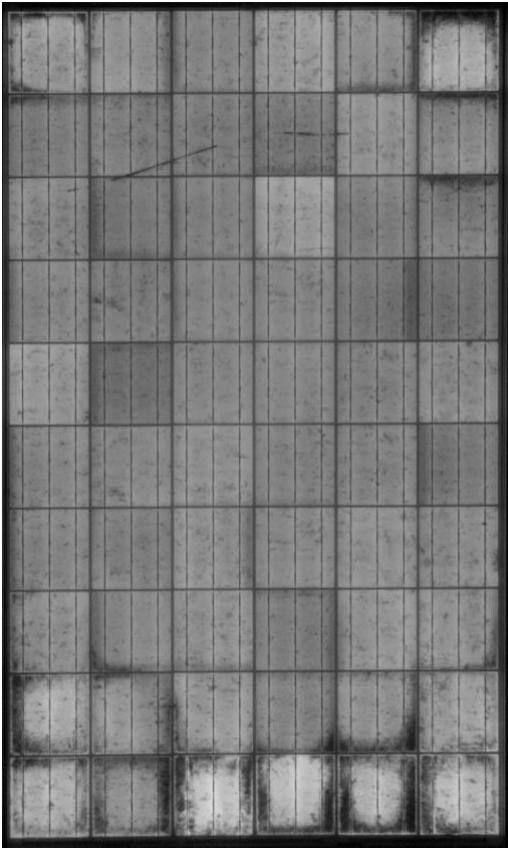


Figure 14: 2110-CPV-001-014

	A	B	C	D	E	F
1	D					D
2		NF	NF	NF	NF	
3	NF	NF				
4						
5						
6						
7						
8						
9	D				D	
10	D	D	D	D	D	D

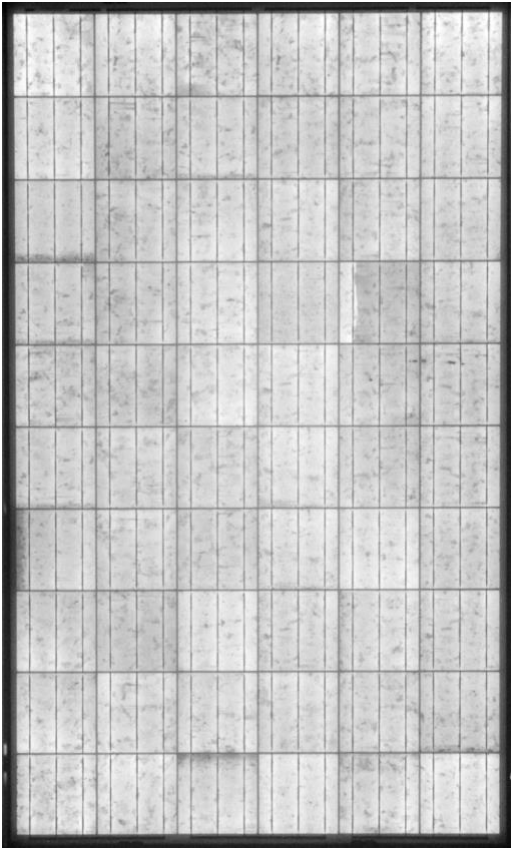


Figure 15: 2110-CPV-001-015

	A	B	C	D	E	F
1						
2						
3						
4					NC	
5					NF	NF
6						
7						
8						
9						
10				NC		

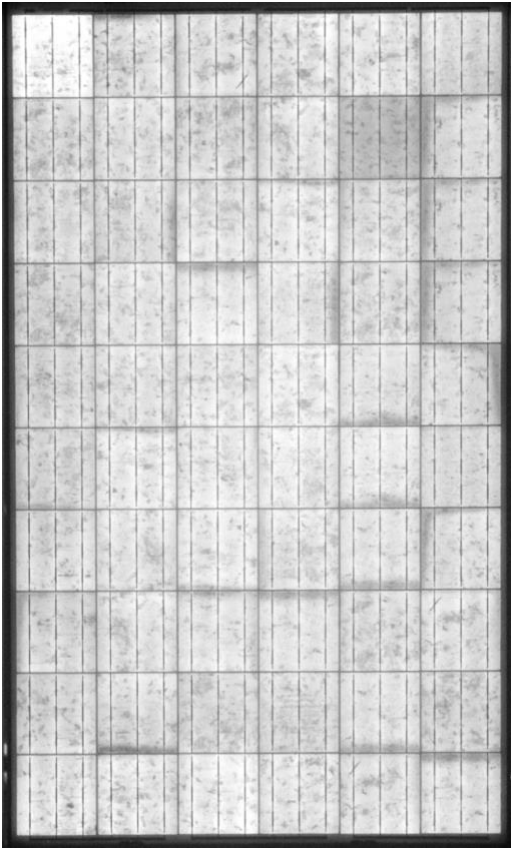


Figure 16: 2110-CPV-001-016

	A	B	C	D	E	F
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						

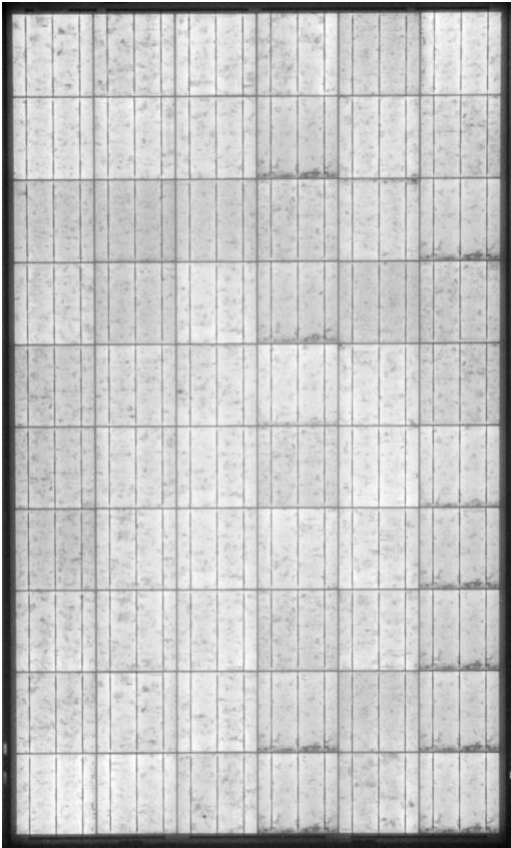


Figure 17: 2110-CPV-001-017

	A	B	C	D	E	F
1						
2						
3						
4						
5						
6						
7						
8						
9						
10			NC			

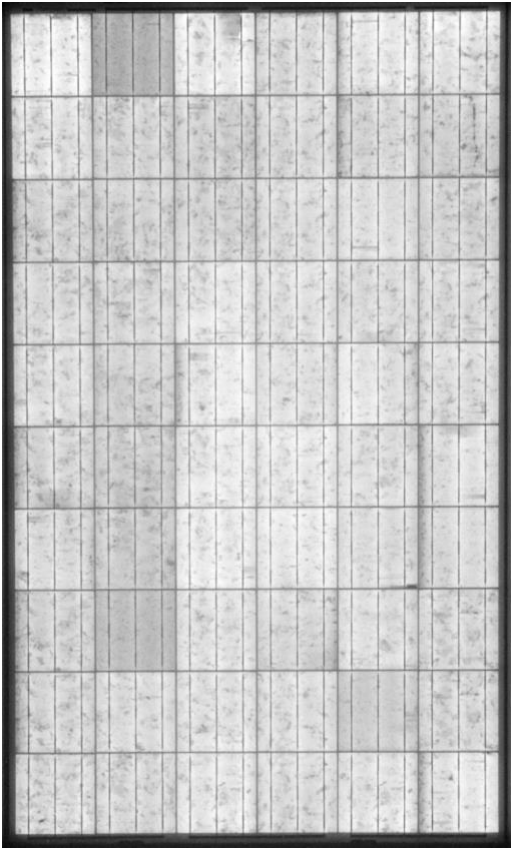


Figure 18: 2110-CPV-001-018

	A	B	C	D	E	F
1			NC			
2						
3						
4		NC				
5						
6						
7						
8						
9						
10						

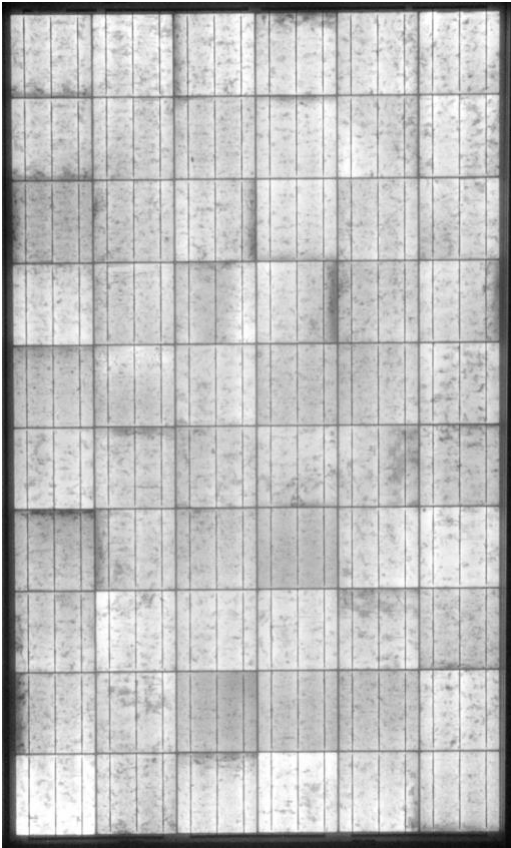


Figure 19: 2110-CPV-001-019

	A	B	C	D	E	F
1						
2			NC			
3					NC	
4						
5						
6						
7						
8						
9						
10						

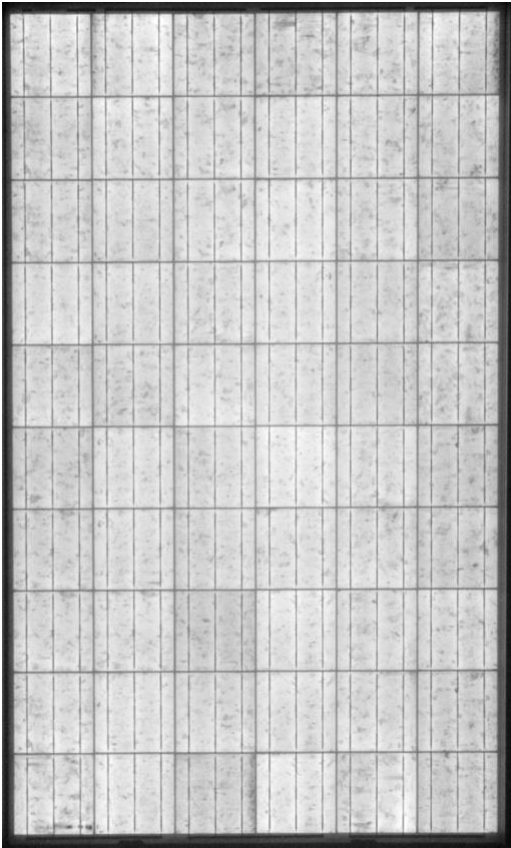


Figure 20: 2110-CPV-001-020

	A	B	C	D	E	F
1						
2						
3						
4						
5						
6						
7						
8						
9						
10	NF					

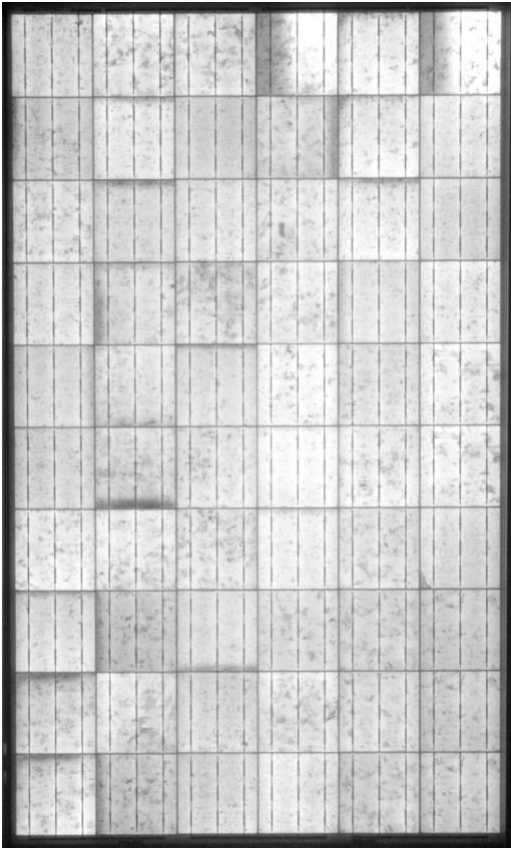


Figure 21: 2110-CPV-001-021

	A	B	C	D	E	F
1				CF		CF
2						
3						
4						
5						
6				NC		
7						NC
8						
9						
10						

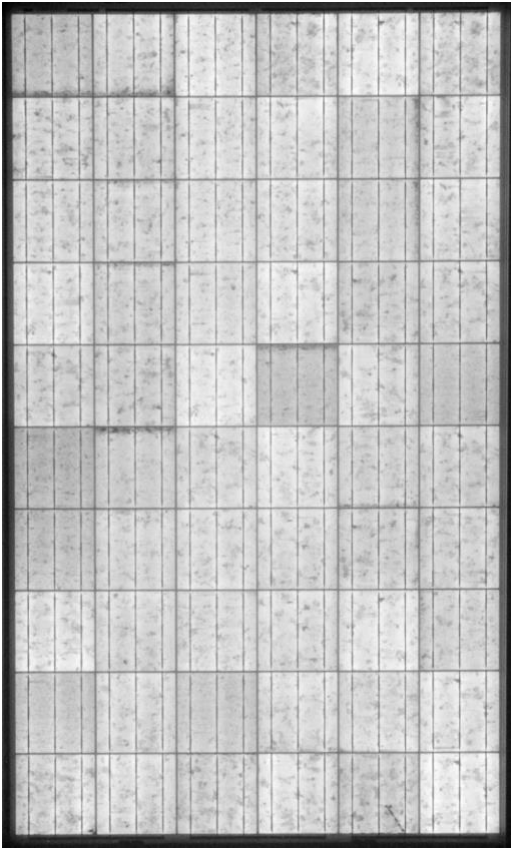


Figure 22: 2110-CPV-001-022

	A	B	C	D	E	F
1						
2	NC					
3						
4						
5						
6						
7						
8						
9						
10	NC				NF	

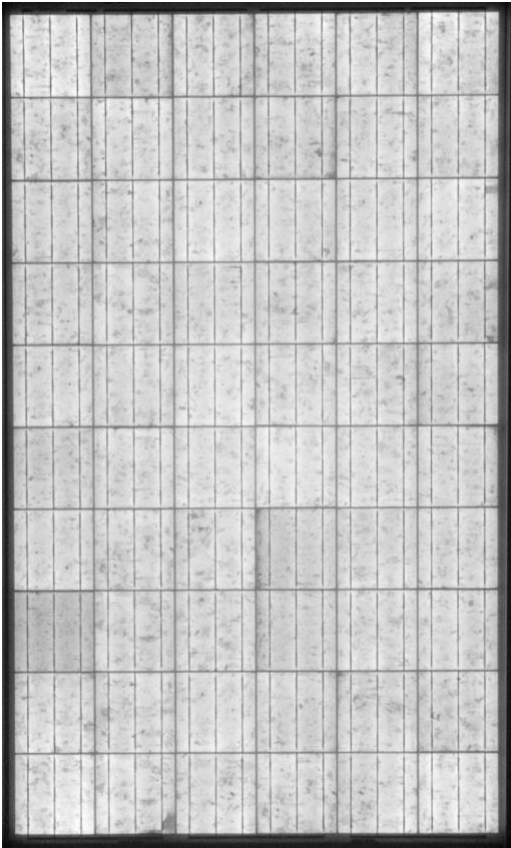


Figure 23: 2110-CPV-001-023

	A	B	C	D	E	F
1						
2						
3						
4						
5						
6						
7						
8						
9						
10		NC				

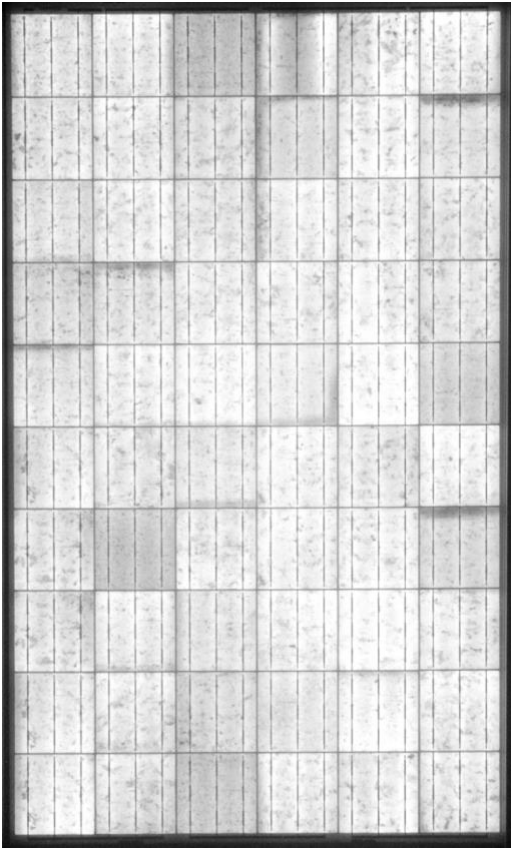


Figure 24: 2110-CPV-001-024

	A	B	C	D	E	F
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						

Wet leakage current tests

Test conditions

The table below shows test conditions for the wet leakage tests.

Date of test	10/11/2021 & 03/12/2021
Operator	Tim Bray, Gabe Nelson
Test procedure	IEC 61215 MQT 15
Explanation of test	Measurements were carried out in accordance with IEC 61215, using a HiPot dielectric resistance tester. IEC 61625 states that for modules with an area larger than 0.1 m ² the measured insulation resistance times the area of the module shall be not less than 40 MΩ·m ² .
Water temperature	22 – 24°C
Water conductivity	< 3,500 Ω/cm
Module area (m ²)	Various (See below table)
Notes	Panels 010 to 014 did not have connectors upon receipt. Wet leakage testing was carried out using temporary connections which were not submerged during testing.

PV Lab Number	Module area (m ²)
2110-CPV-001-001	1.68
2110-CPV-001-002	1.68
2110-CPV-001-003	1.68
2110-CPV-001-004	1.65
2110-CPV-001-005	1.65
2110-CPV-001-006	1.65
2110-CPV-001-007	1.67
2110-CPV-001-008	1.67
2110-CPV-001-009	1.67
2110-CPV-001-010	1.65
2110-CPV-001-011	1.65
2110-CPV-001-012	1.65
2110-CPV-001-013	1.65
2110-CPV-001-014	1.65
2110-CPV-001-015	1.63
2110-CPV-001-016	1.63
2110-CPV-001-017	1.63
2110-CPV-001-018	1.63
2110-CPV-001-019	1.63
2110-CPV-001-020	1.63
2110-CPV-001-021	1.63
2110-CPV-001-022	1.63
2110-CPV-001-023	1.63
2110-CPV-001-024	1.63

Results

The table below shows the results of the wet leakage test. It includes the measured resistance in M Ω , the resultant M Ω ·m² value allowing for module area and the pass or fail results.

PV Lab Number	Measured resistance (M Ω)	Result (M Ω ·m ²)	Pass / Fail
2110-CPV-001-001	110	180	Pass
2110-CPV-001-002	164	270	Pass
2110-CPV-001-003	130	220	Pass
2110-CPV-001-004	667	1100	Pass
2110-CPV-001-005	625	1000	Pass
2110-CPV-001-006	588	970	Pass
2110-CPV-001-007	-	> 30,000	Pass
2110-CPV-001-008	5,000	8,000	Pass
2110-CPV-001-009	-	> 30,000	Pass
2110-CPV-001-010	435	720	Pass
2110-CPV-001-011	333	550	Pass
2110-CPV-001-012	263	430	Pass
2110-CPV-001-013	333	550	Pass
2110-CPV-001-014	500	820	Pass
2110-CPV-001-015	999	1,600	Pass
2110-CPV-001-016	1,249	2,000	Pass
2110-CPV-001-017	1,249	2,000	Pass
2110-CPV-001-018	1,110	2,000	Pass
2110-CPV-001-019	1,666	3,000	Pass
2110-CPV-001-020	768	1,300	Pass
2110-CPV-001-021	832	1,400	Pass
2110-CPV-001-022	555	900	Pass
2110-CPV-001-023	555	900	Pass
2110-CPV-001-024	999	1,600	Pass

Report release history

The below table shows the history of reports relevant for this job.

Release Number	Date	Notes
No previous reports		