

測試報告

報告日期：2023-08-16

報告編號：11255C01206-1-2-01

版次：B

委託項目

名稱：電致發光測試(EL test)

委託顧客

名稱：崧象有限公司

地址：高雄市前鎮區凱旋四路 430 號

上述委託項目經本實驗室 測試，結果如內文。

本報告含簽署頁及內文共 6 頁，分離使用無效。



王漢英

綠能與環境研究所
所長

黃朝揚

部門主管

測試名稱：電致發光測試 (EL)

測試日期：112.07.26~112.08.04

樣品名稱：太陽能模組

委託者：崧象有限公司

測試實驗室：太陽光電系統與可靠度研究室

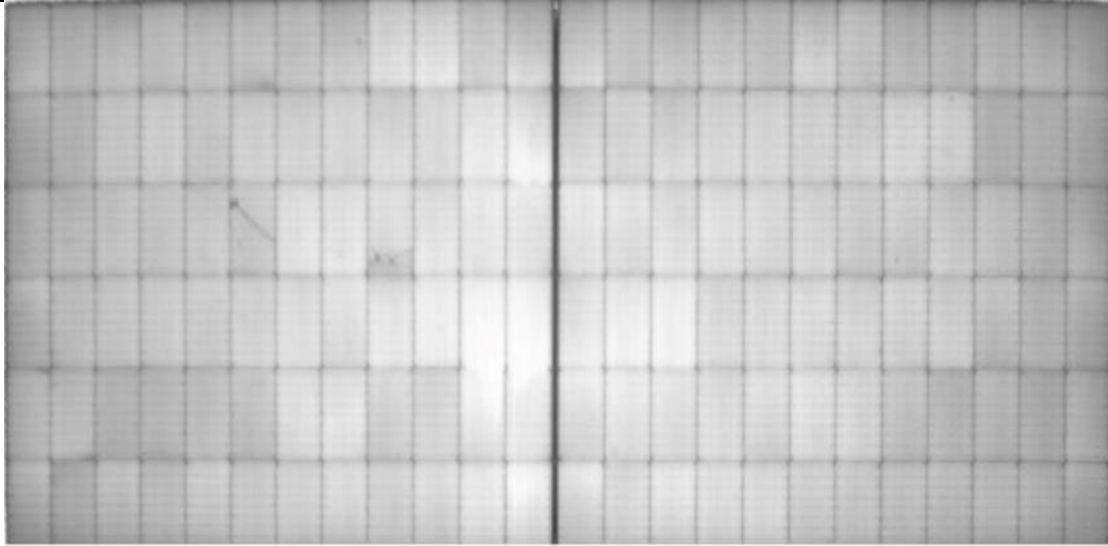
地址：台南市歸仁區高發二路360號C棟110室

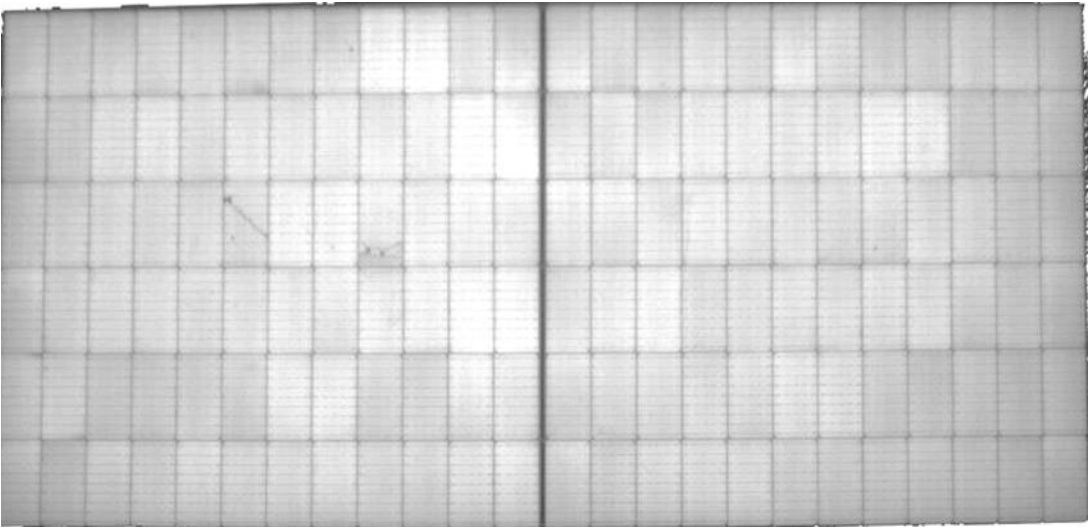
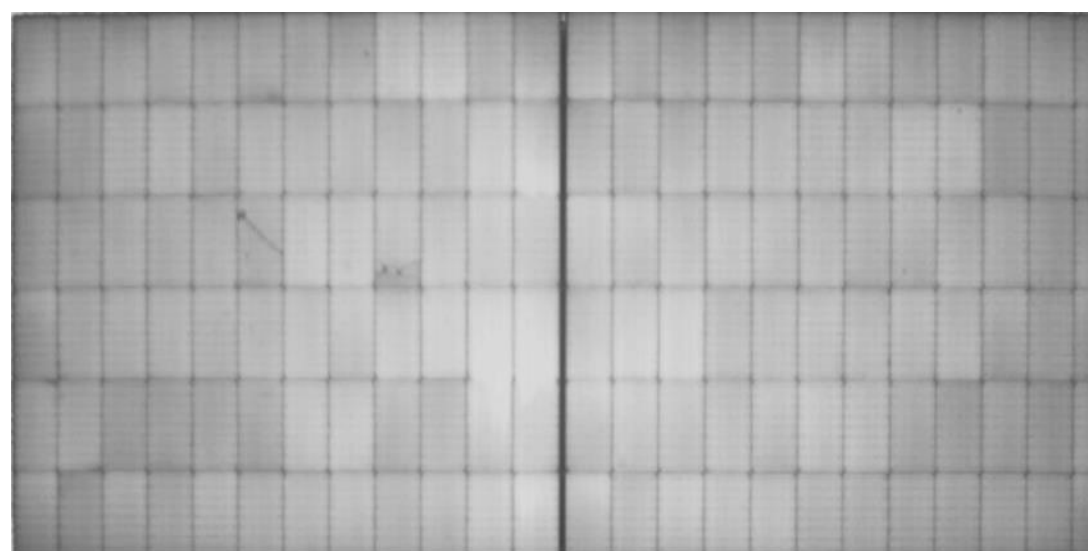
1. 測試方法 : W-C300-B017 電器安規測試儀 SOP
2. 測試項目 : 太陽能組清洗後之電致發光測試 (EL)
3. 測試結果 : 如表 1 所示

太陽能模組型號：隆基 LR5-72HPH-545M

自動清洗機型號：Kwun-E32H

表 1、電致發光測試 (EL)

清洗次數	
測試前	

<p>清 洗 1000 次</p>	
<p>清 洗 2000 次</p>	

4. 測試用儀器

儀器名稱	型號
電器安規測試儀	EXTECH 7440

5. 標準可追溯性之證明

儀器名稱	追溯機構	報告號碼	儀校有效期限
電器安規測試儀	NBE	22-09-NBE-084-04	2023/10/05

6. 參考文獻

6.1 W-C300-B017 電氣安規測試儀 SOP

7.附錄-測試樣品外觀

測試樣品

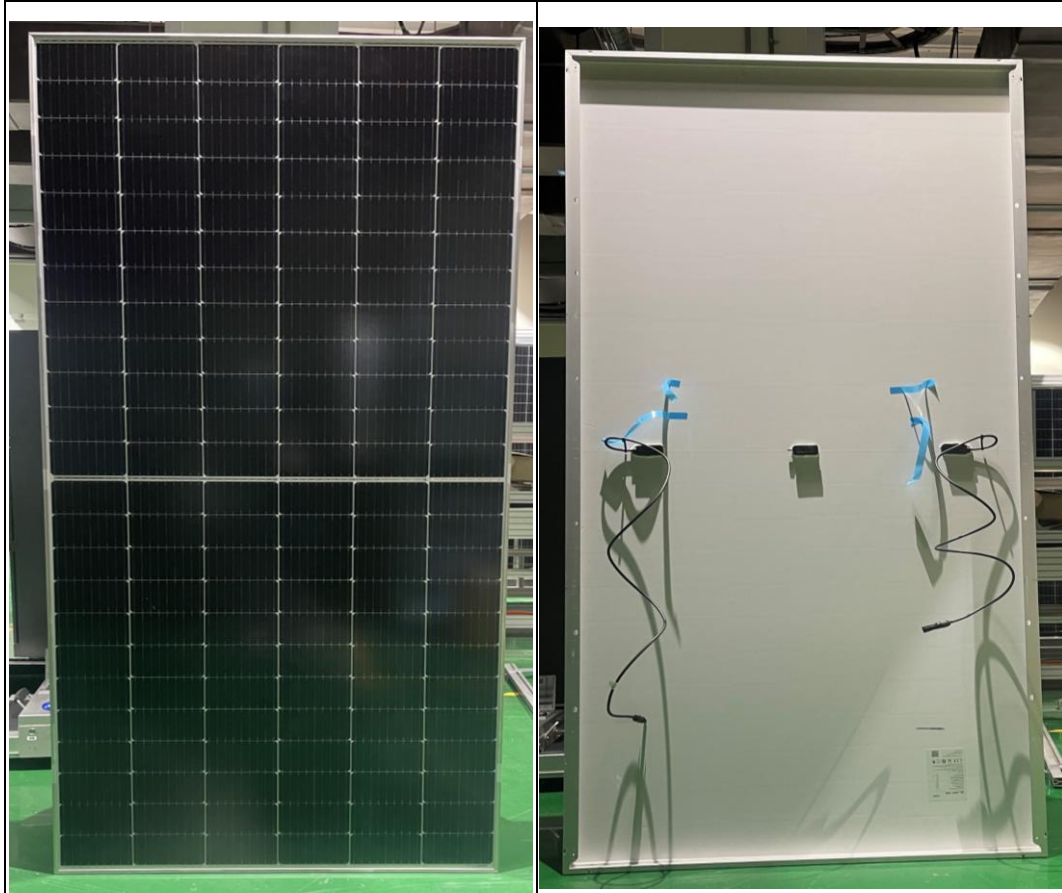


圖 1、測試模組正面

圖 2、測試模組背面



圖 3、測試模組標籤

自動清洗機外觀

Kwun-E32H

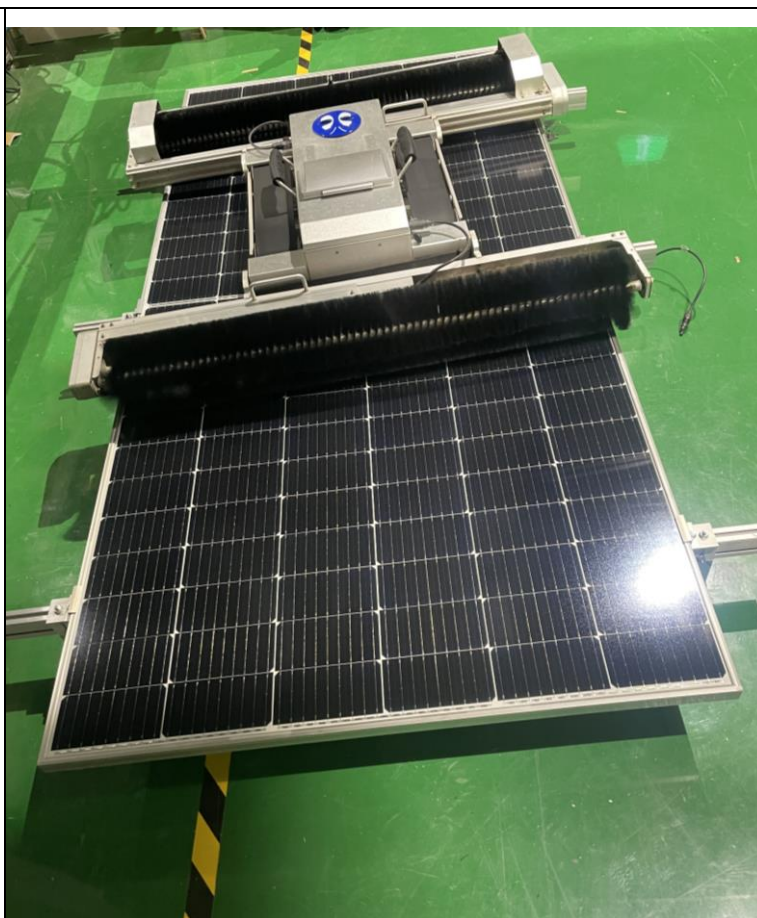


圖 1、自動清洗機外觀



圖 2、自動清洗機型號

Test Report

Date Issued : 2023-08-14

Report No . : 11255C01206-1-1-02

Version : A

Service Item : Electroluminescence test

Client

Company Name : SONGSIANG CO., LTD.

Address : No.430, Kaixuan 4th Rd., Qianzhen Dist.,
Kaohsiung City 806, Taiwan (R.O.C.)

Result of Service Item, performed by ITRI Laboratory, is specified on the next/ following page(s).

This report, including a signature page and content, is a total of 6 pages.
The validity of this report no longer exists if signature page and content are separated.



Jian Wang

General Director
Green Energy & Environment Lab

Chao Yang Huang

Department Manager

Test Specification : Electroluminescence test

Testing Date : 112.07.26 ~112.08.04

Testing sample : solar module

Client: : SONGSIANG CO., LTD.

Testing Location : Photovoltaic System and Reliability Department

Address : Rm.110,Bldg.C ,No. 360, Gaofa 2nd Rd., Guiren Dist., Tainan City
711010 , Taiwan R.O.C.

- 1 · Test methods : W-C300-B017 Electrical Safety Tester SOP
- 2 · Test Specification : Electroluminescence test of solar module after cleaning
- 3 · Test results : See Table1

Module type : LONOI LR5-72HPH-545M
Equipment Type : kwunphi E32H

Table 1. Electroluminescence test

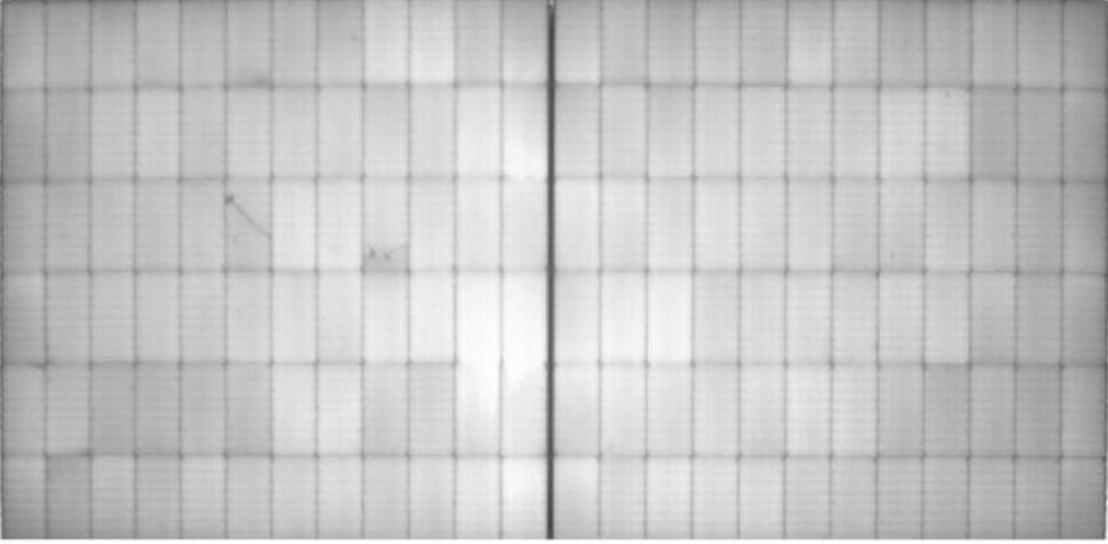
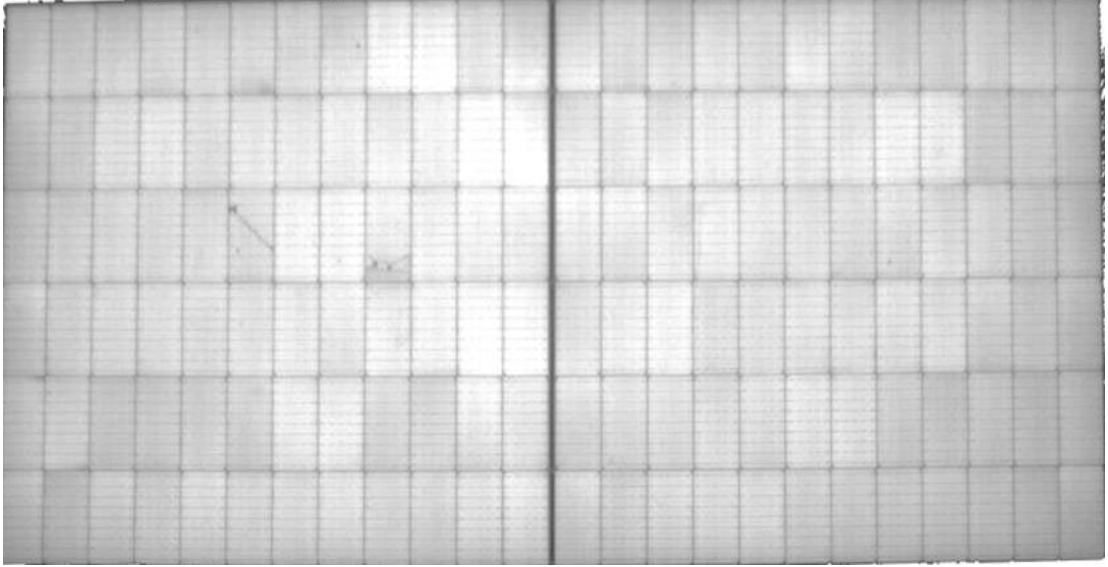
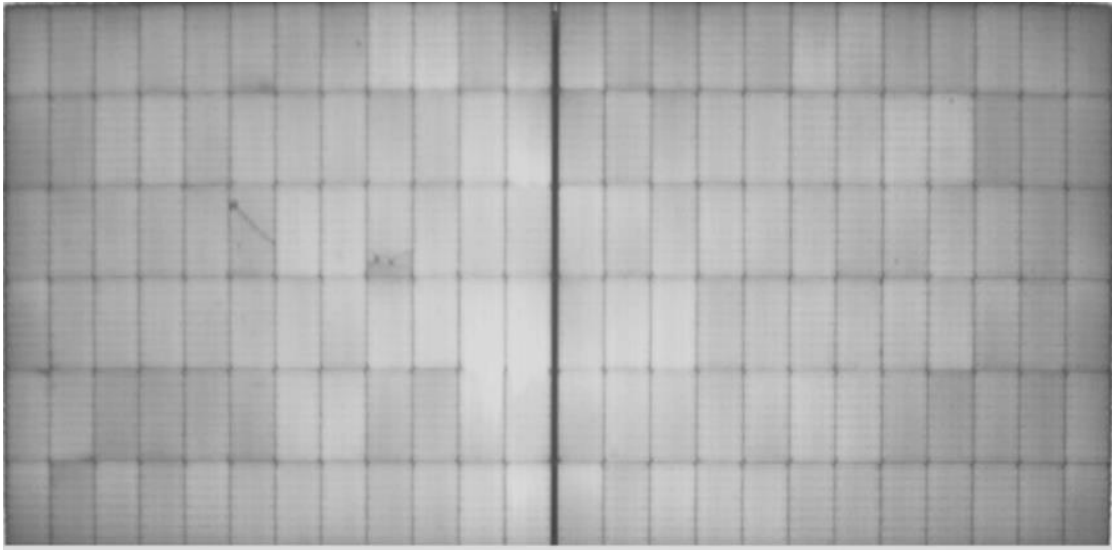
Cleaning Item	
Image prior to test	
Image prior to 1000 RUN	

Image prior
to
2000RUN



4. Test Description

4.1 Testing Instruments

Equipment	Model No.
Electrical Safety Tester	EXTECH 7440

5. Instruments of Traceability

Instruments	Traceability Unit	Report No.	Calibration validity period
Electrical Safety Tester	NBE	22-09-NBE-084-04	2023/10/05

6 · Reference

6.1 W-C300-B017 Electrical Safety Tester SOP

7 · Appendix
Test Module

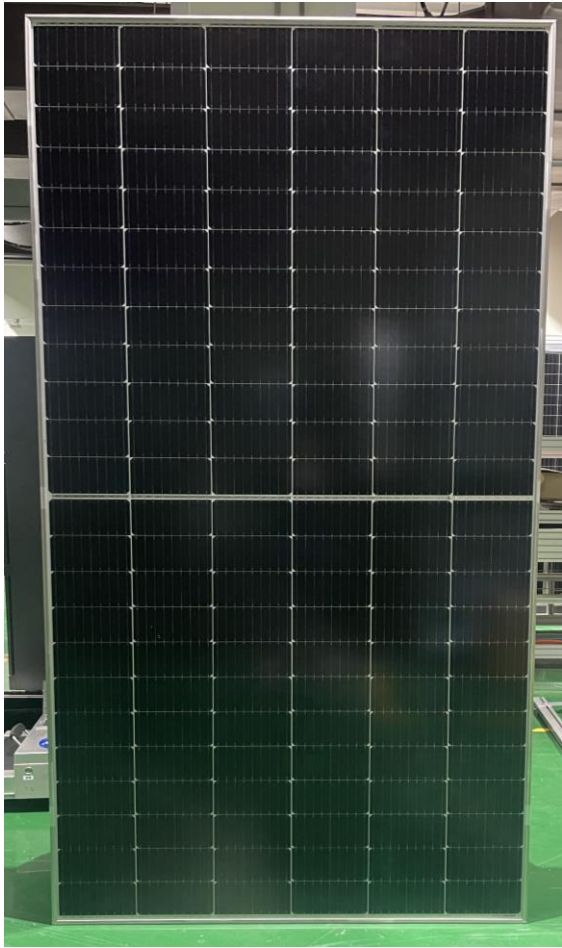


Fig1:Front view of test sample



Fig2:Rear view of test sample



Fig3:Detail view of type lable

Test Equipment

Kwun-E32H

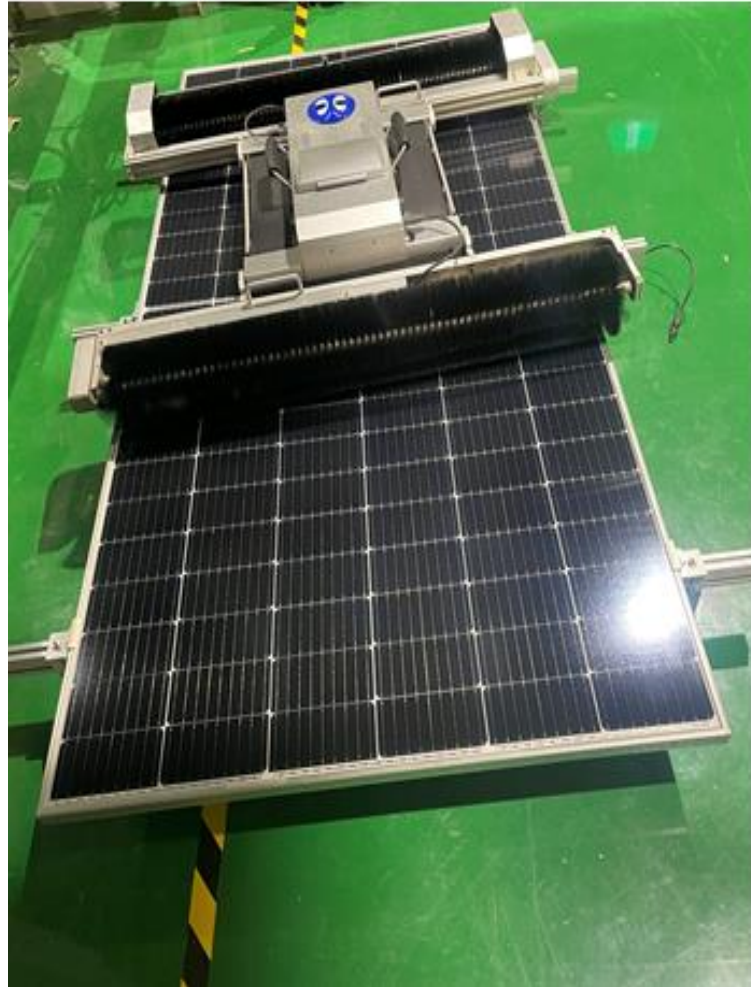


Fig1:Front view of test Equipment



Fig2:Detail view of Equipment type