

WUHAN OOITECH

Crystalline Solar Panel Production Equipment Introduction



Made by: Margret Cao

Wuhan Ooi Photoelectric Technology Co.,Ltd

Website:<http://www.ooitech.com> Tel:+86-27-81779060

Fax:+86-27-81779060

Address: Buliding 2 NO.13 Yangqiaohu Road, East Lake High-tech Development Zone, Wuhan of China

Technical Information is confidential, shall not be disclosed without Wuhan Ooitech permission to third parties

1. Introduction

First, thanks for reading! Well we hope the catalog's been helpful, if there's anything more you want to know, feel free to post to info@oitech.com.

This catalog presents the design and implementation of a solar panel production line system, including automatic production line and semi-auto production line. Thanks to Ooitech's experience in solar industry area and through the research of materials and manufacturing equipment, Ooitech intends to promote a development compatible with the environment and in the full respect of nature.

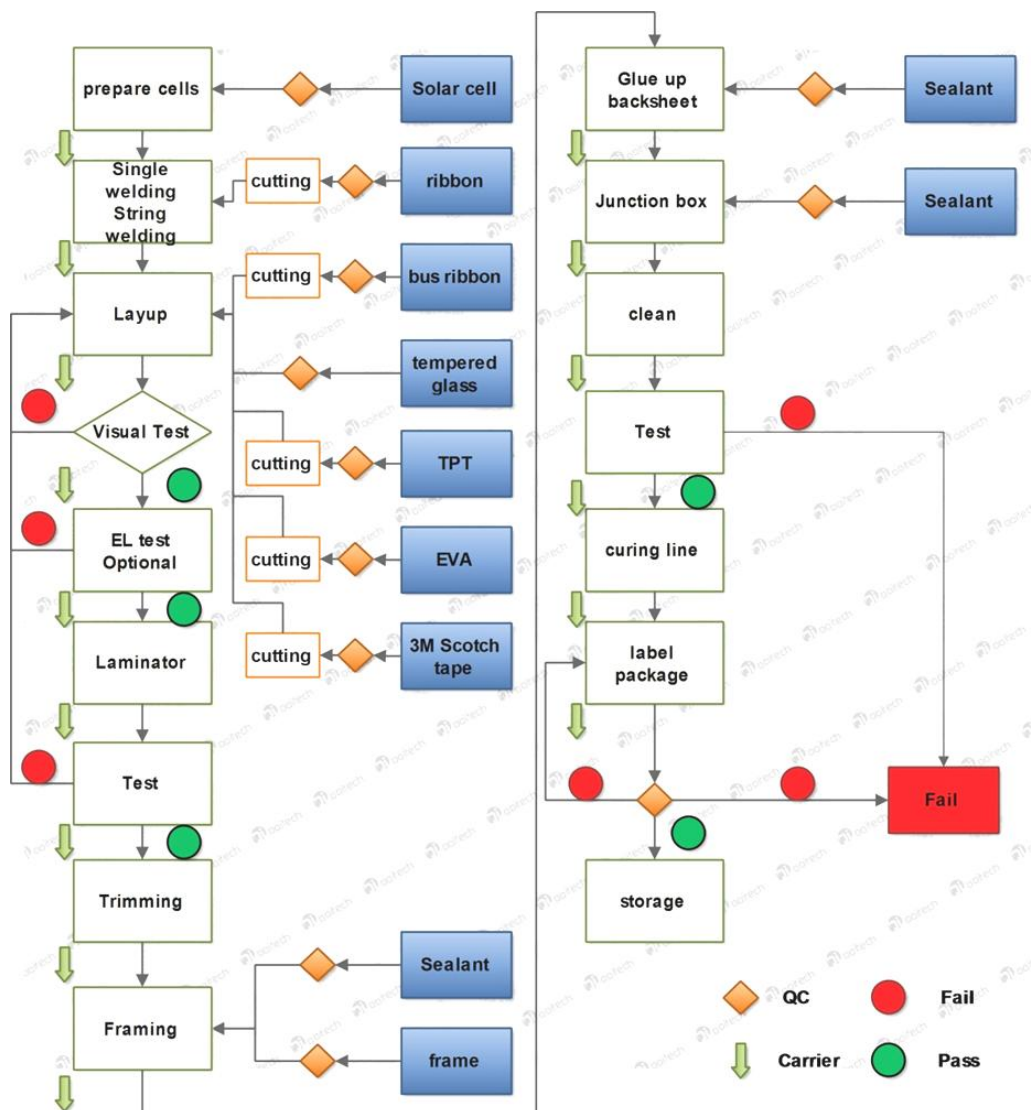


1.1. Solar Panel Production Project Profile

Project Name: Crystalline Solar Panel Encapsulation Line
Project Capacity: Customized 5MW 10MW 20MW~100MW (*1)
Project Designer: Wuhan Ooitech

1.2. Solar Panel Production Description

1.2.1. Project Process Flowchart



(*2)

1.2.3. Factory Building Requirement

[5MW capacity for example]

Infrastructure requirement :

- (1) Size: 800 to 1500 m².
- (2) Door: At least 4000mm, for the laminator enter in and out.
- (3) Floors: hardened ground, Better with epoxy flooring.
- (4) Total power supply: 380V 200A.
- (5) Air source: 0.7 ~ 0.9m³/min 0.8 ~ 1.0MPa central gas tank.
- (6) Water: circulation cooling water for laminator 's vacuum.
- (7) Fire: layout requirements in accordance with local fire.
- (8) Air Conditioning: workshop with central air conditioning, EVA / Cell warehouse equipped with Constant temperature air conditioning.
- (9) Exhaust pipe: vacuum laminating machine need place for exhaust pipes.

Plant construction requirements:

- (1) the indoor light intensity, temperature, humidity, atmospheric pressure, venting facility should be able to reach the general assembly of electronic products plant requirements.
 - (2) cells, EVA, TPT repository temperature of 25 °C± 2 °C.
 - (3) cell scribing, cell sorting, welding; layup, laminated work area need the general purification plant, and room temperature should be 25 °C-28 °C.
 - (4) cells sorting and solar panel test station room temperature should be 25 °C± 2 °C.
- According to the above requirements, need to build different room: raw materials warehouse, ready to plant workshop, solar panel production line (clean room), solar panel repair room (clean room), finished products room and other accessories.



1.3. 10MW Crystal solar panel Equipment List

S/N	Description	QTY	Remark
1	Semi Auto laminator	2	
	Or Full Auto laminator	1	
2	Solar Cell Laser Cutting Machine	1	
3	Solar Cell Tester	1	
4	Solar Panel Tester	1	
5	Solar Panel EL Defect Tester	1	optional
6	Semi Automatic Solar Panel Framing Machine	1	
7	PV ribbon cutting machine	1	optional
8	Welding Station	8	
9	Lay up station	2	
10	Manual EVA/TPT cutter	1	
11	Inspection Station	1	
12	work table	6	optional
13	Glass/Module Carrier	8	
14	Ready material carrier	10	
15	String Cell Carrier	8	
16	Solar Cell Carrier	2	optional
17	EVA/TPT Carrier	2	
18	String Tray	8	
19	150W Lead Free Soldering Station(Electric iron)	28	optional



1.4. 20MW 30MW 50MW 100MW Crystal Solar Panel Equipment List

Welcome to contact via Email:info@ooitech.com (*4)

3. Machine Working Video

Follow website could find our machine video:

1. Semi Automatic Laminator operation

<http://youtu.be/lponA8bofgE>

2. diode laser scribing & break off

<http://youtu.be/elcPmuLWgEU>

<http://youtu.be/m3G6U7SLa58>

3. fiber laser scribing machine

<http://youtu.be/Ujblkidom0M>

4. solar cell tester

http://youtu.be/0-625AHKe_Y

5. EL tester

<http://youtu.be/cz3h1jCSjzg>

6. online EL

<http://youtu.be/TlrJVRfP8MI>

7. Solar panel tester and solar simulator

<http://youtu.be/FPclazaXuiA>

8. Solar panel framing machine

http://youtu.be/_brzdHeMOI8

9. Glass washing machine:

<http://youtu.be/hxLgjevSCjs>

10. PV Ribbon cutting machine

http://youtu.be/wfs_Z-Fa0JY

11. solar panel making machine-single solar cell welding video

<http://youtu.be/ecS-M51tj0>

12. solar panel making machine solar cell String welding

<http://youtu.be/OjxBIF0xd7w>

13. solar cell lay up and visual inspection

http://youtu.be/v_CfifBOHNg

<http://youtu.be/9v0YCIhZlg>

14. Framing and gluing

<http://youtu.be/EfDDiD58jJc>

<http://youtu.be/d6FWAR3zfxY>



4. Contact Us

Start to Work with OOITECH,
Built Beautiful Future



contact	Margret Cao
	<p>Wuhan Ooi Photoelectric Technology Co.,Ltd Email: margret@ooitech.com Website:http://www.ooitech.com Mobile: +8618571645990 +8613554255933 TEL: +86-27-81779060 (F) Skype: margret200789 Wechat: margret2009 WhatsApp: +8618571645990 Address: Buliding 2 NO.13 Yangqiaohu Road, East Lake High-tech Development Zone, Wuhan of China.</p>

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