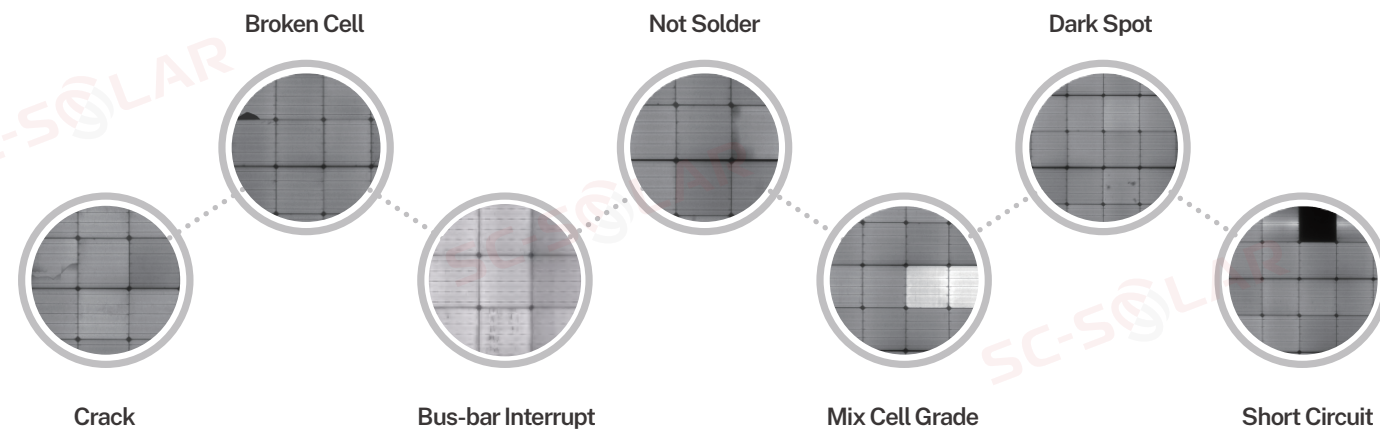
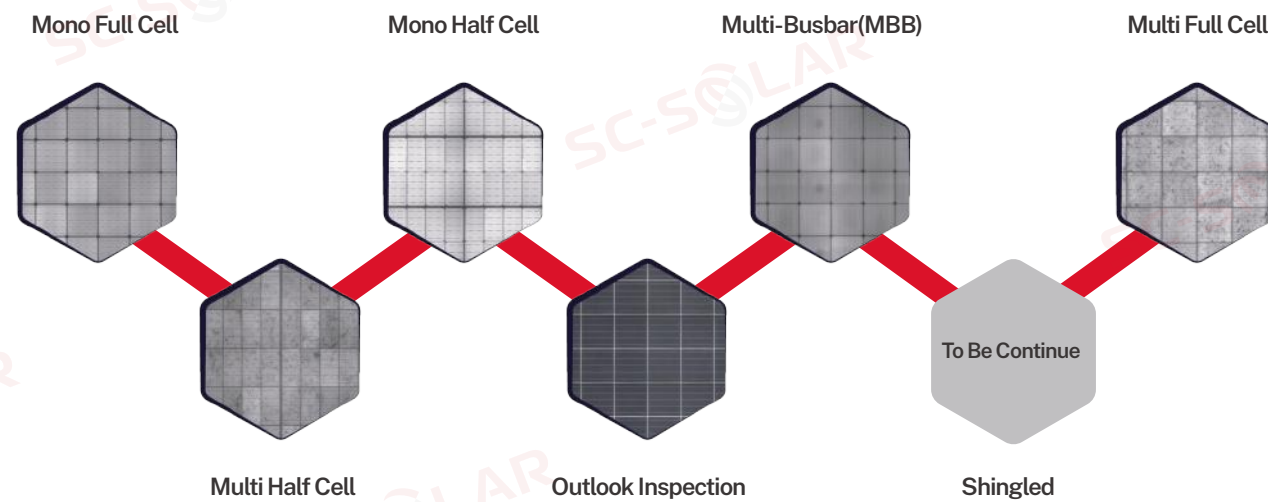


## EL AUTO IMAGE RECOGNITION SYSTEM

### What are we inspecting?



### Compatible Cell Type



### Fast Ramping Time for New Product



Multi-Busbar, Shingled, Bi-facial & ect. product welding point detection  
Automatic detection of abnormal occurrence points by String EL function and reduction of searching period of on monitor

### Lean on Manpower for Manual Detection & Rework



With string EL AI, defective strings can be repaired beforehand and therefore reduces workload at the panel repair station

### Reduced Loss of Cell



Automatic String EL Detection can avoid massive defect WIP occurrences from Stringer to Pre-Lamination EL, it can prevent massive detect string produced by stringer

### Yield of Quality Improve

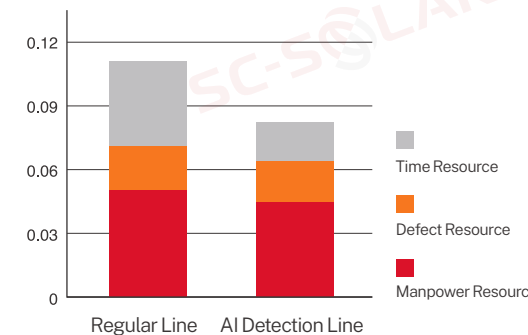


With standardized of detection protocol, Pre & Post Lamination module EL automatic detection can reduced human dependent factor which cause miss detection due to fatigue for long operation can improve yield.

### Fast Change-over Time



Multiple type product market demand is becoming more and more obvious, the core role of rapid positioning and intelligent judgment in solving abnormal situations is to help customers stop worrying about hidden cracks in virtual welding



Comparisons of AI Detection before and after of Multi-Busbar

Single Line KPI	Original	AI Detection
Daily Module Output (piece)	1800	2330
Reach Full Product Capacity (day)	5	2
Module Rework Rate (%)	18.2	5.07
Module Rework Manpower (pax)	12	4
String Rework Rate (%)	4.3	3.08
String Rework Manpower (pax)	5	5
Defect Rate (%)	0.32	0.28
Stringer Daily Downtime (h)	1.87	1.15
String Down Grade Rate (%)	0.15	0.05
Annual revenue generation(10K RMB)		354