Photovoltaic panel cutting and welding

How welding strip affect the power of photovoltaic module?
The quality of welding strip will directly affect the current collection efficiencyof photovoltaic module,so it has a great impact on the power of photovoltaic module. The so-called photovoltaic welding strip is to coat binary or ternary low-melting alloy on the surface of copper strip with given specification.

How to reduce the shading area of a photovoltaic welding strip?
The shading area of the photovoltaic welding strip is reduced by reducing the width of the main grid line and the PV welding strip,and the total amount of light received by the solar cell is increased. However,the contact resistance of the whole PV assembly is too large,which increases the electrical loss of the photovoltaic module.

Does heterogeneous welding strip affect PV Assembly power improvement?
The welding strip is an important part of photovoltaic module. The current of the cell is collected by welding on the main grid of the cell. Therefore, this paper mainly studies the influence of different surface structure of heterogeneous welding strip on PV assembly power improvement. The main findings are as follows:

What is photovoltaic welding strip?
The so-called photovoltaic welding strip is to coat binary or ternary low-melting alloy on the surface of copper strip with given specification. The methods of continuously and evenly coating low-melting metals and alloys on the metal strip include electroplating,vacuum deposition,spraying and hot-dip coating.

How solar simulator affect the size of photovoltaic welding strip?
According to IEC61215 standard,the light emitted by solar simulator is vertically incident on the surface of photovoltaic welding strip through glass and EVA. The change of surface structureof photovoltaic welding strip will change the reflection path of light on the surface of photovoltaic welding strip,affecting the size of a 1 in Fig. 1.

How to improve the power of photovoltaic module?
When the incident angle of reflection lighton the surface of photovoltaic welding strip is a 1 > 42. 5 ° at the EVA/glass interface,more and more light in the reflected light will be refracted on the surface of the solar cell in photovoltaic module. Finally,the power of photovoltaic module will be improved. Fig. 1. Reflection Light Path.

The MBB Cell stringer is compatible with 156-220mm, 5BB-12BB, and 18BB half-cut cells and capable of manufacturing up to 3400 pcs./hr. The ultra-high speed MBB cell stringer is compatible with 166-230mm half-cut cells, 210-230mm ...

5.3 String Welding the Solar Panel 5.3.1 String Welding Procedures during Solar Panel Production. Follow

these procedures when string welding a solar panel: Check for the defects on the cell. These include improper angle, lack of edge, ...

Solar Panel Manufacturing: Understanding the Process. Here are the main steps that outline the solar panel manufacturing process: 1. Solar Cell Sorting. Solar cell sorting will allow the manufacturer to sort the solar cells available for ...