Photovoltaic strip processing

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 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.

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 ? 1 in Fig. 1.

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:

How does a photovoltaic module work?

In the photovoltaic module, the photovoltaic welding strip is packaged in EVA, and the reflected light from the surface of the photovoltaic welding strip passes through EVA and glass and enters the air. The transmission path of light is shown in Fig. 1.

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PV welding strip is tinned copper strip, with a width of 1-6mm, a thickness of 0.08-0.5mm and a thickness of 10-30 u M thick flux coating. There are two forms of PV welding strip applied to photovoltaic modules: ...

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