

# Principle of Photovoltaic Panel Conversion Welding Machine

How solar photovoltaic panels can convert irradiance into energy?

This set up is placed near the electric arc welding process in open and isolated environment and reading were taken while welding was performed. Hence available amount of effective irradiance can be converted into energy by use of solar photovoltaic panels.

How does a photovoltaic module manufacturing line work?

The first phase in a photovoltaic module manufacturing line is joining the solar cells, which is done by a solar tabber and stringer, a totally automatic machine able to optimise the very delicate phase of stringing and tabbing.

How welding strip affect the power of photovoltaic module?

The quality of welding strip will directly affect the current collection efficiency of 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 improve the power of photovoltaic module?

When the incident angle of reflection light on the surface of photovoltaic welding strip is a  $1^\circ$  to  $42.5^\circ$ ; 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.

Can a solar generator be used for welding?

A solar generator is more convenient to use for welding than a solar panel, as a single power station can generate up to 5000W. In contrast you have to install several solar panels to produce the power required by welding machines. There are a lot of different welding processes, so their power usage will vary.

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 structure of 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.

Finally, welding occurs on the welding transfer table, and discharge is handled by the discharge mechanism.

### 3.2 Applicable Battery Technologies.

The equipment is specifically optimized for BC series battery strings, meeting the welding ...

Solar panel lamination is crucial to ensure the longevity of the solar cells of a module. As solar panels are

exposed and subject to various climatic impact factors, the encapsulation of the solar cells through lamination is a crucial step ...

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