

This website uses cookies to improve the user's experience during working with our network and to provide users with dedicated services and functions. By further use you agree with that.OKDetails

Endereço	Fidelis Energy Inc 190 North Canon Drive , Suite 420 Beverly Hills 90212
Estado	California

PRODUTOS / MÁQUINAS

The Company's photovoltaic cells consist of:

An initial semiconductor layer, comprised of N type semiconductor material having a top surface and a bottom surface. Light-transmitting particles are interspersed within the N type semiconductor material; and

A second semiconductor layer, consisting of P type semiconductor material having a top surface and a bottom surface. Light-transmitting particles are interspersed within the P type semiconductor material. The top surface of the second layer is in direct physical and electrical contact with the bottom surface of the first layer to form an N-P junction.

The generation of electrical current from the lower N-P junctions of a stacked multi-layer photovoltaic cell results from the transmission of light through each semiconductor layer to the lower semiconductor layers. As a result, photovoltaic cells are produced which exhibit greater current-generating capacity for a given surface area of sunlight exposure.

The technology utilizes light-transmitting materials reduced to a powder form, typically through grinding the material to a size of 5 micrometers to 150 micrometers, followed by a further reduction in the particle size to 400 to 800 nanometers.

A wave guide carries light through the cell. This is achieved by exciting metallic structures that cause the conduction electrons to oscillate. Conduction electrons improve the absorption and emission of light from thin planar semiconductor layers by coupling the light with the wave guide modes of the semiconductor layer. Enhancing absorption through the use of conduction electrons also avoids the increase in surface recombination that occurs with conventional light-trapping methods.

The wave guide mode concentrates electrical potential in the cell. The material and amount of layers determines voltage while amperage is determined by particle size. The multiple stacked solar cell and wave guide mode enables sunlight- exposed conversion areas to be maximized by shifting the orientation from horizontal to vertical.

In addition, the technology enables PV cells to be packaged in any desired physical shape and with a reduced overall surface area such as cubes or elongated tubular structures designed to fit within specific size and shape constraints. This design flexibility greatly reduces the difficulty and costs of shipping, storing, deploying, and securing large solar module arrays.

Company Profile of **Fidelis Energy Inc**

A service of glasssglobal.com, an affiliate of glasssglobal group.

O material impresso endereço que você é autor e pertence à empresa ou ao seu terceiro Marketing Agency, e todos os direitos reservados. Qualquer usuário que acessa esse material poderá fazê-lo apenas para seu próprio uso pessoal, bem como a utilização desse material é de risco exclusivo do Utilizador. A redistribuição ou exploração comercial de material, tais endereço é expressamente proibida. Sempre que tal material endereço é fornecido por um terceiro, cada utilizador concorda em observar e estar vinculado aos termos específicos de utilização aplicáveis a material notícia. Glass Global não representa nem endossa a precisão ou confiabilidade de qualquer informação contida em qualquer endereço ou sites externos referidos no presente impresso. www.glasssglobal.com - O Portal Internacional para a Indústria do Vidro - Ogis GmbH