Rod Lens for CPV (Concentrated Photovoltaic)

Rod Lens are made of resins or metal. However compared to glass products, they’re inferior quality and suffer such as decay durability, anti-whetherability and transmission problems. So “Glass Lens” is essential condition to enhance the reliability of CPV.

There are two type of CPV systems.
- Using only <Fresnel lens>
- Using <Fresnel + Rod Lens>

In the system with only Fresnel lens, solar cell might be damaged if a small portion of the cell, on which unevenly distributed light concentrates, gets hot. Furthermore, the slight change of the light collection position due to the movement of the sun will adversely affect light-gathering efficiency. On the other hand, in the system with a Rod Lens, it is possible to cause light to be shed on the entire area of the solar cell thus enabling the whole surface of the cell to be used efficiently and effectively.

We also manufacture aspheric mirror lens, Fresnel lens (glass, PMMA)

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