

SolarTech Power Solutions

Solar and luminescent solar panels



Overview

A luminescent solar concentrator (LSC) is a device for concentrating radiation, solar radiation in particular, to produce electricity. Luminescent solar concentrators operate on the principle of collecting radiation over a large area, converting it by luminescence (specifically by fluorescence) and directing the generated radiation into relatively small photovoltaic solar cells at the edges. DesignInitial designs typically comprised parallel thin, flat layers of alternating luminescent and transparent materials.

The layers in the stack may be separate parallel plates or alternating strata in a solid structure. In principle, if the effective input area is sufficiently large relative to the effective output area, the output would be of correspond.

Various articles have discussed the theory of internal reflection of fluorescent light so as to provide concentrated emission at the edges, both for doped glasses and for organic dyes incorporated into bulk polymers.

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