

SOLAR POWER SYSTEM

ABSTRACT OF THE DISCLOSURE

A solar power system having multiple heat-exchange modules, a heating unit, a power-generating device, a power-transforming device, a power storage, and a fluid channel is provided. Each heat-exchange module includes a heat exchanger having a first/second heat-exchange sets, a base, and a heat-focusing device used to receive the sunlight. A heat-exchange space is formed between the first/second heat-exchange sets. A phase transfer is formed to generate a steam by the assistance of the heat exchanger, the heat-focusing device, and the heating unit. Then, the power-generating device is drive by the steam to generate a mechanical energy. The power-transforming device is suitable for transforming the mechanical energy into a electricity and storing the electricity into the power storage. The fluid channel is communicated with the heat-exchange space of each heat exchanger, the heating unit, and a power-generating device.

FIG. 1