

DESIGN AND DEVELOPMENT OF THERMOELECTRIC REFRIGERATOR USING PHOTOVOLTAIC CELL

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Abstract

Solar thermoelectric refrigerator is a special type of refrigerator which utilizes solar energy instead of conventional electrical energy to power the thermoelectric module that has been used to cool the refrigeration space. The main objective of the refrigerator service is to be suitable for use by people who live in the remote areas where electricity is not available. The refrigerator can also be used for remote parts of the world or outer conditions where electric power supply is not readily available.

Keywords: Thermoelectric Refrigerator, Photovoltaic Cell, Peltier Effect, SMPS, Heat Sink.

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