

DESIGN OF A SOLAR POWER SUPPLY FOR A SMALL CLINIC

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SUMMARY

"SOLAR CLINIC" BY ANGELES ACHILLEOS

The following work deals with the design, of a Solar Generator system.

Such power systems are usually produced by big international companies which undertake the design, construction and also erection of the system. For this reason, the average Electrical Engineer is not familiar with solar modules and battery charging characteristics.

However, the main purpose of this project is to find out under what conditions such a "Solar Clinic" is applicable.

The approach followed from the beginning till the end was to investigate everything from the scratch. For this reason, the author had studied the characteristics of solar modules and batteries for a long time.

He had visited places with functions as the ones required, and had long discussions with the specialists in charge.

Special circuits were designed, to transfer the energy from the Solar Modules to the loads or store it in the batteries, and others to protect the modules and the batteries, as well as to control the loads.

After the elaboration of the whole work it is obvious that solar electric systems are used in places with plenty of sunshine, and away from the electricity network which to be expanded up to the above location would cost a high amount of money.

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