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Author Hung-Wen Kuo
Author's Email Address No Public.
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Abstract
As competitions between people have been intensified significantly over time, people's pressure has been increased dramatically. In order to release the pressure, people would like to do outdoor exercises on holiday. People get used to the life with water and electricity supply and rely on electronic products. Therefore, it is really inconvenient to exercise outdoor without the electricity supply. In order to solve such inconveniency, an innovational product is invented, and the name is called "Inverter." The main function of the Inverter transforms Vdc to Vac. Regarding the traditional Inverter, most are using the structure of Inverter-silicon steel Transformer-Filter. Therefore, the traditional Inverter is heavy and inconvenient. It's not able to meet people's demand of reliability, efficiency, and high power density. The study is mainly focus on the transformation of battery on car（DC12V）transforming to electricity in city（AC110V，60Hz）, try to control the circuit and replace the circuit of a pair of control above chip of tradition by a micro chip and some detecting and examining more accurate too, and it is the main purpose to make the whole system have insulating specialties.
Advisory Committee Yuan-Tai Hsieh - advisor

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