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Abstract
This thesis is concerned with the design and implementation of DC-AC Modified Sine-Wave Power Inverter; In order to improve high-price and transfer disadvantage of the ineffective products…etc. At first, making DC 12V transfer AC 110V, three of the important design is: First, effect of the DC-AC Modified Sine-Wave Power Inverter. Second, it output voltage regulation. Third, examination of the DC input voltage and power load.
This thesis uses switch power inverter、feedback circuits and core of the system EM78P418NP was developed by ELAN, At the end of improving DC-AC Modified Sine-Wave Power Inverter. Using A/D Converter built-in EM78P418NP chip to exam input voltage、temperature and load; It take advantage of PWM and Time Clock produce 41K Hz、2K Hz、60 Hz、2 Hz and 0.5 Hz frequency drive power durability of the transistor、display of LED…etc. Finally, this thesis gets to high-effect and low cost product.
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