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12V - 115V Inverter: A Deisgn Report

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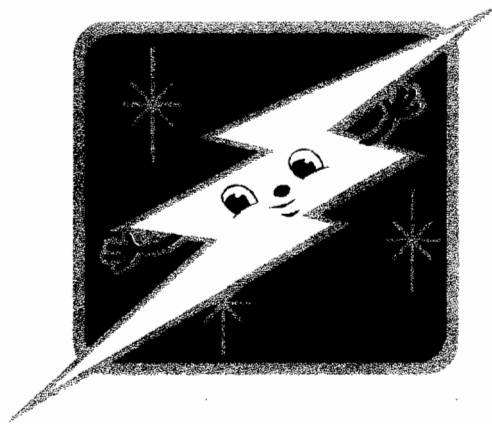
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12V—115V Inverter: A Design Report

**Gregory A. Benson
April 28, 2005**



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EXECUTIVE SUMMARY

This report proves the concept and superiority of a modified sine wave 12VDC—115AC inverter. It does so using comparisons to square wave and trapezoidal wave inverters on the market. Included is a thorough overview of the operation of the inverter as well as an overview of design at the subcircuit and component level. It also includes subjects for future research.

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