



## Cost Reduction and Manufacture of the SunSine-AC Module: Final Subcontract Report

By National Renewable Energy Laboratory (NREL)

Bibliogov, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.This project was a two-phase effort consisting of technical research and manufacturing development to improve and reduce the costs of the SunSine inverter. Research addressed packaging, soft switching, circuit optimization, manufacturing process improvements, and pilot production manufacturing. Significant cost reductions were achieved. The main goal of this project was to reduce cost and improve the manufacturability and reliability of the SunSine? ac module, which consists of a SunSine? inverter mounted on an ASE Americas PV laminate. This work has also boosted the performance and enhanced marketability by adding customer-valued features. Ascension Technology has accomplished these advancements by cost reductions or design modifications in the following areas: Die-cast aluminum enclosure and base plate; soft switching for cost reduction and efficiency gains; circuit board and component optimization for performance gains and size reduction; streamlined inverter assembly and production testing; and streamlined inverter/module assembly.



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