



Cost Reduction and Manufacture of the Sunsine-AC Module: Phase I Annual Report

By -

Bibliogov, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This report summarizes the progress made by Ascension Technology in Phase I of the Cost Reduction and Manufacturing Improvements of the SunSine AC Module. This work, conducted under NREL subcontract, is a two-phase effort consisting of investigations into improving inverter packaging, soft switching, circuit optimization, design for manufacturing, manufacturing processes, and pilot production manufacturing. The objective of this subcontract is to significantly reduce the cost of the SunSine? inverter, enhance its performance, and streamline and expand the manufacturing process. During Phase I, the soft-switching topology was designed, then refined to meet stringent cost and performance goals. This design resulted in improved performance, smaller overall footprint, and reduced costs. The aluminum inverter housing was redesigned, and the decision was made to conformal coat the circuit boards, which was verified through the HAST (Highly Accelerated Stress Testing) method.



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