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Development of a Modular, Bi-Directional Power Inverter for Photovoltaic Applications: Final 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 research and development contract has resulted in several benefits for Trace Engineering and the PV industry that are directly attributable to the PVMaT program: 1) Application of the hardware-based protection circuit developed in Phase I was completed on Trace's existing DR and SW series product lines. This additional protection circuit was phased into full production starting in April of 1997. This resulted in a substantial improvement in factory yields and a very significant reduction of field failures--a drop of as much as 80 percent on some product models; 2) Accelerated development and introduction of the Power Module enclosure/balance-of-systems package. This product is a big step toward the standardization of system and equipment design for Trace's customers; 3) Developed the cost-reduced 2.5-kW modular inverter based on the current SW series software and topology. This new inverter/charger uses many new construction and manufacturing methods to reduce cost by 40 percent, simplify production, decrease parts count by over 20 percent, reduce labor required by 30 percent, and increase the flexibility in the manufacturing process. It will enter production...


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