

# China Photovoltaic Inverter Industry Report, 2009-2010

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## Abstracts

Inverter functions to convert direct current (DC) into alternating current (AC), which turns out to be a 'reverse' rectification process. Photovoltaic (PV) inverter is the core device of photovoltaic system. The performance improvement of inverter plays a crucial role in promoting the efficiency & reliability and service life of the system as well as reducing cost.

Globally, SMA, KACO, Fronius, Ingeteam, Siemens, Studer, Xantrex, Danfoss, Conergy, Satcon, Power-one, Outback power, etc. nearly monopolize the world's market shares, of which, the former five enjoy a market share exceeding 70%. In 2009, SMA ranked first with a global share of 44%.

As a whole, there is a certain gap between Chinese PV inverter manufacturers and most advanced foreign counterparts in respect of conversion efficiency, structure & process technique, workmanship, and stability, while the technical level of low power keeps roughly the same as that in overseas countries. Sungrow Power Supply Co., Ltd. is the largest supplier of new energy power in China with the products covering wind power, photovoltaic, and electrical source of power system, which have been successfully applied in numerous large-scale demonstration projects in China. Its shipment of PV inverter in 2009 approximated 80MW.

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