A compact dc/ac inverter for automotive is presented and experimented. The proposed inverter consists of full bridge inverter and a new ZVCS quasi-resonant push pull dc/dc converter. The new dc/dc converter converts input 12 V (from battery) to high voltage (about) 200V at very high conversion efficiency without regulation. The high voltage will be converted to ac at the desired voltage and frequency by the full bridge inverter. The experimental results show the new unregulated push-pull dc/dc converter can be applied for the automotive inverter to reduce the size and increase the conversion efficiency.