

## Online IGBT Selection Tool Optimizes Power Management Design



International Rectifier, IR® today announced the availability of a new online Insulated Gate Bipolar Transistor (IGBT) selection tool that enables design optimization in a wide range of applications including motor drives, uninterruptable power supplies (UPS), solar inverters, and welding.

IR's new IGBT Selection Tool evaluates application conditions including bus voltage, switching frequency, and short circuit protection requirements. Located at <http://mypower.irf.com/IGBT>, the online tool provides an estimate of losses and suggests parts that can function within the given constraints. The tool also provides pricing for each part to enable designers to consider the effects of device choice on system cost.

IGBT selection requires evaluation of many parameters that cannot be simplified into a single metric. As switching losses can be traded for conduction losses, for example, calculating operating losses requires both operating frequency and bus voltage parameters, in addition to operating current. Also, the requirement of some motor drive inverters for minimum short circuit withstand time comes at the expense of higher losses.

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<http://www.wirelessdesignmag.com/product-releases/2010/08/online-igbt-selection-tool-optimizes-power-management-design>