

Multilevel DC-DC and DC-AC Converters for Fuel Cell System
Dr. Mehdi Anwar

We have already demonstrated a 170W 12V/48V DC-DC converter. The design is currently been updated by choosing a different circuit topography to increase the electrical efficiency to 90% as opposed to the demonstrated efficiency of 65%. The adopted design will be implemented on a printed circuit board and the change of the duty cycle of the switching transistor will enable the user to control output voltage and power.