

COMPARISON BETWEEN SOLAR POWERED SEPIC AND BUCK BOOST CONVERTER FED DC DRIVES

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This paper explains the performance comparison of DC motor drive when it is fed by solar powered converters namely SEPIC & BUCK - BOOST. PV array can feed power to the load through DC-DC converter boosting the output voltage. MATLAB/Simulink simulations are presented to demonstrate the performance of the proposed MPPT algorithm. Perturb and Observe MPPT algorithm is used here in order to extract maximum power from the solar panel. Simulation results are collaborated using a DC motor load and the results are displayed.

