



Fig. 6. Time domain simulations from Simulink/SimpowerSystems with initial parameters and parameters from sensitivity-based iterative tuning

ensure stability of the CCVSM in strong grids. After re-tuning the controller parameters, reasonable dynamic performance could be ensured for the three schemes over a large range of grid inductance values, with well damped inertial response ensured by the df/dt IE and the VCVSM and as slightly more oscillatory response with longer settling time for the CCVSM.

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