Fault Diagnostic & Reconfiguration Scheme for PV System

Md Waseem Ahmad, Hasmat Malik, and Sanjib Kumar Panda



circuit fault detection of semiconductor switches in interleaved boost converter interfacing PV system to the DC grid.

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 Verified the proposed approach using simulation and experimental studies.

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proposed scheme: time scale=200 us/div

Fig. 9. Zoomed waveforms for fault in Phase-1 with

Fault det

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Fault injected,

In

3.15

3.05

Time (s) 3.05

Fig. 7. Currents after implementation of proposed scheme

when reference input current is less than the combined rating

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2.85 2.9 2.95

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of healthy phases, time scale=1s/div.

