

Solar Energy South Africa

DC microgrid and proposed solution



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Robust Voltage Regulation for DC Microgrids via Passivity-Based ...

This paper proposes a decentralized sliding mode control approach to the voltage regulation problem in a DC microgrid consisting of distributed generation units interconnected with each ...

Review of Voltage Control Strategies for DC ...

In the proposed solution, the DC bus voltage signal is also used to specify the operating mode of the MG to facilitate seamless mode conversion. Guerrero, J.; Sun, Q. Droop-free distributed control with event-triggered ...



Bidirectional DC-AC Converter-Based Communication Solution for Microgrid

A converterbased communication solution for microgrid Fig. 3. Schematic of the proposed converter in inverter mode. Fig. 4. The relationship between the transmitted signal and the current ...



Voltage Stability in a Photovoltaic-based DC Microgrid with GaN ...

Here, Solar DC Microgrid Solution ensures secure Voltage stability as well as good Power Quality. Reliable power supply as well as economic limitation, the proposed solution involves the ...



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