

Title: Discharge voltage of microgrid

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Download scientific diagram | The discharge voltage, current waveforms and optical images of sphere electrode with a radius of 0.2 m. (a) Voltage and current waveforms. (b) Optical images of the ...

When power generation is greater than power consumption, the voltage at the distant point is higher than the target since the current flows toward the battery, while the voltage is lower during discharge.

For this reason, this paper proposes a battery charger/discharger based on the Sepic/Zeta converter and an adaptive controller, which provides bidirectional current flow, stable bus voltage, ...

investigates charging and discharging strategies based on a generic model for energy storage. Operating modes are segregated based on control methods for photovoltaic units and energy ...

This manuscript proposes a hybrid method for optimization of battery charger/discharger for the regulation of bus voltage on DC microgrid. The proposed hybrid method combines the spider ...

DC microgrid based on photovoltaic (PV, 500 WP) and fuel cell (FC, 1 kW) power generators have been designed to operate DC loads at different voltage levels (24

This method considers both the bus voltage deviation and the SOC, effectively adjusting the number of PV units in MPPT mode based on power surplus or deficit, thereby enabling the ...

This paper introduces a novel design for a universal DC-DC and DC-AC converter tailored for DC/AC microgrid applications using Approximate Dynamic Programming and Artificial Neural ...

The voltage regulation problems are addressed by main grid in grid connected micro-grid whereas in isolated micro-grid are designed to overcome such variations in voltage and frequency by ...

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