

DC Microgrid Patent



Overview

A DC electricity distribution network or microgrid is disclosed, providing a means to interconnect disparate electrical loads, storage and generation. The function of an electrical power grid is to transmit electrical power from its sources to its loads. Its origins date to the 1880s when Thomas Edison established the first direct current (DC) distribution grid, which was soon replaced by Tesla's alternating current (AC) grid. AC transmission won. A DC microgrid includes a power electronic converter, a protection unit configured to be in a through state, a CL state, or an open state, a bus-bar connected to the output of the protection unit, and at least one sub-system connected to the bus-bar. Renewable energy sources, energy storage systems, and loads are the basic components of a DC MicroGrid. What are the key research areas in DC microgrids?

Power-sharing and. 2022-04-15 Assigned to GENERAC POWER SYSTEMS, INC.
ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).
2022-09-19 Assigned to JPMORGAN CHASE BANK, N.

DC Microgrid Patent



US Patent Application for MESH-BASED ARCHITECTURE FOR DC ...

One or more converters at the remaining DC microgrid nodes can be controlled using feedforward control with droop control using tie-line current sensor information.

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202221048979 DESIGN AND SIMULATION OF DC MICROGRID

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Abstract: In recent years, due to the wide utilization of direct current (DC) power sources, such as solar photovoltaic (PV), fuel cells, different DC loads, high-level integration of different energy storage ...

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DC-based microgrid: Topologies,

control schemes, and implementations

Abstract This article presents a state-of-the-art review of the status, development, and prospects of DC-based microgrids.

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DC MicroGrids

Renewable energy sources, energy storage systems, and loads are the basic components of a DC MicroGrid. These components can be better integrated thanks to their DC feature, resulting in ...

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US20200393864A1

A device includes an energy unit coupled to an energy device and adapted to couple a pair of split DC rails.

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US20120299386A1

A DC electricity distribution network or microgrid is disclosed, providing a means to interconnect disparate electrical loads, storage and generation.

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5 Years
warranty



Stability Assessment and Simplified Control Strategy for DC ...

Dynamic performance of the DC microgrid is seriously affected due to negative impedance characteristics of the constant power loads (CPL). It deteriorates the s.



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Protection Coordination Method for DC Microgrids

A DC microgrid includes a power electronic converter, a protection unit configured to be in a through state, a CL state, or an open state, a bus-bar connected to the output of the protection ...

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Mechanically-Mediated Distributed Energy Mesh (M-DEM) for Patent ...

Current microgrid patents universally assume electronic control architectures. The mechanical alternative approach was not considered by existing inventors, creating a clear novelty ...



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