

DC Microgrid Invention Patent



Overview

Systems and methods are provided for creating and operating a Direct Current (DC) micro-grid. A DC micro-grid may include power generators, energy storage devices, and loads coupled to a common DC bus. The function of an electrical power grid is to transmit electrical power from its sources to its loads. 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. 29, 2019 (54) SYSTEMS AND METHOD FOR ROUTING (56) References Cited POWER ACROSS MULTIPLE MICROGRIDS HAVING DC AND AC BUSES U. PATENT DOCUMENTS (71) Applicant : Science Applications International 5,804,953 A * 9/1998 Bowyer Corporation. (57) Direct current (DC) microgrids and hybrid micro-grids require controllers for both voltage control and load sharing.

DC Microgrid Invention Patent



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US20180366948A1

The effects of greenhouse gases (GHG) have generated an interest in DC microgrid research due to its ability to integrate renewable energy sources and provide storage to existing grid



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(12) United States Patent (10) Patent NO.: US 8,421,270 B1

BACKGROUND OF THE INVENTION 1. Field of Invention for controlling small distributed energy resources (DERs). More specifically, the present invention relates to If managed microgrid with DC 20

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(12) United States Patent

As illustrated in FIG . 4A, the 4A through 4D includes a DC input bus and a DC output bus, microgrid module may comprise one or more DC input those of skill in the art will recognize that two distinct ...

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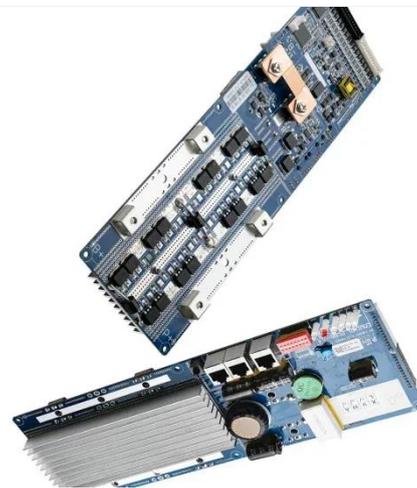
A DC electricity distribution network or microgrid is disclosed, providing a means to interconnect disparate electrical loads, storage and generation.

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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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U.S. Patent Application for DC MICROGRID FOR ...

A DC electricity distribution network or microgrid is disclosed, providing a means to interconnect disparate

electrical loads, storage and generation.

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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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SECONDARY CONTROL OF ENERGY SUPPLIES IN DC AND ...

[0001] The embodiments described herein are generally directed to control of an energy supply, and more particularly, to secondary control of energy supplies, such as battery energy storage systems, ...

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