

Title (en)
ROTARY DYNAMIC SYSTEM POWER DISTRIBUTION UNIT

Title (de)
ENERGIEVERTEILUNGSEINHEIT MIT DYNAMISCHEM DREHSYSTEM

Title (fr)
UNITE DE DISTRIBUTION D'ENERGIE A SYSTEME DYNAMIQUE TOURNANT

Publication
EP 1327292 A2 20030716 (EN)

Application
EP 01979538 A 20011004

Priority

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- US 67867700 A 20001004

Abstract (en)

[origin: WO0230174A2] A power distribution unit (PDU) provides power to end loads, such as critical computer systems. The PDU receives a primary and a secondary source of power and is able to switch to the secondary source of power when there is a problem with the primary source of power. The PDU stores energy, in a device such as a flywheel, so that if one of its power sources fail, the PDU can continue to supply high quality power to its loads while the alternate power source is brought on-line. A pair of three-pole mechanical switches control whether the primary or alternate power supplies are used. A standard motor generator is connected to the output of the switches, and is used to transform the input power and to use the stored energy during a switch from the primary to secondary source of power.

[origin: WO0230174A2] A power distribution unit (PDU) provides power to end loads, such as critical computer systems. The PDU receives a primary (101) and a secondary source (102) of power and is able to switch to the secondary source of power when there is a problem with the primary source of power. The PDU stores energy, in a device such as a flywheel (122), so that if one of its power sources fail, the PDU can continue to supply high quality power to its loads while the alternate power source is brought on-line. A pair of three-pole mechanical switches (111-112) control whether the primary or alternate power supplies are used. A standard motor generator (115) is connected to the output of the switches, and is used to transform the input power and to use the stored energy during a switch from the primary to secondary source of power.

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