Title (en)

METHOD FOR OPERATING AN INVERTER, AND INVERTER

Title (de)

VERFAHREN ZUM BETRIEB EINES WECHSELRICHTERS UND WECHSELRICHTER

Title (fr)

PROCÉDÉ DE COMMANDE D'UN ONDULEUR, ET ONDULEUR

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Abstract (en)

[origin: WO2023006370A1] The invention relates to a method for operating an inverter (100) with a DC input and an AC output. The DC input can be connected to a DC source (10), bridge branches (125) of a bridge circuit (110) are connected to the AC output via power chokes (L1ac, L1ac_a, L1ac_b, L2ac, L2ac_a, L2ac_b,L3ac, L3ac_a, L3ac_b), and the AC output can be connected to an AC grid (20, 30) via isolating switches (GR), wherein the inverter (100) is designed to feed electric power to the AC grid (20, 30). The method has the steps of: - opening the isolating switches (GR), and - actuating semiconductor switches (T1, T2, T3, T4, T5, T6) of at least two bridge branches (125) of the bridge circuit (110), said bridge branches being connected behind at least one power choke (L1ac, L1ac_a, L1ac_b, L2ac, L2ac_a, L2ac_b, L3ac, L3ac_a, L3ac_b) from the AC side such that a DC source (10) connected to the DC input is loaded, wherein the sum of the totality of currents flowing from at least one of the at least two bridge branches (125) on the AC side corresponds to the sum of the totality of currents flowing into at least one other bridge branch of the at least two bridge branches (125) on the AC side. The invention additionally relates to an inverter.

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