

Title (en)

POWER CONVERTER MODULE AND METHOD FOR PRODUCTION THEREOF

Title (de)

LEISTUNGSUMRICHTERMODUL UND VERFAHREN ZU DESSEN HERSTELLUNG

Title (fr)

MODULE CONVERTISSEUR DE PUISSANCE ET PROCÉDÉ DE FABRICATION DE CE DERNIER

Publication

EP 3635781 A1 20200415 (DE)

Application

EP 18729647 A 20180605

Priority

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Abstract (en)

[origin: WO2018224480A1] The invention relates to a power semiconductor module and to a corresponding product method. The power semiconductor module has a plurality of power switches, wherein a first subset of the power switches is part of a first current branch. A second subset of the power switches is part of a second current branch. The first current branch and the second current branch together form a half-bridge connected in parallel with a first and second d.c. voltage connection. An individual current path, which extends between the d.c. voltage connections and an a.c. voltage connection and is assigned to the power switch, is defined in each of the two current branches by each individual one of the associated power switches. Within the current branches, the associated power switches are symmetrically arranged relative to the d.c. voltage connections and are connected in such a way that a current density which is formed during the high frequency operation of the power semiconductor module and/or during operation of the power switch with a high voltage gradient is homogeneously distributed into the individual current paths in each case associated with one of the power switches.

IPC 8 full level

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CPC (source: EP US)

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C-Set (source: EP)

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