

Title (en)
CONVERTER

Title (de)
UMRICHTER

Title (fr)
CONVERTISSEUR

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Application
EP 17702562 A 20170125

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Abstract (en)
[origin: WO2017140464A1] The invention relates to a converter for converting an input voltage (U1) applied between two input terminals (101, 102) into an alternating voltage with pre-determined amplitude and frequency for controlling a single-phase or multi-phase load, with at least two series-connected submodules (SM; SM1,...,SM8) of an inverter arm. Each submodule (SM; SM1,...,SM8) comprises a circuit carrier (11) and at least two controllable switching elements (S1, S2) which are electrically connected to each other on the circuit carrier (11). Furthermore, each submodule (SM; SM1,...,SM8) comprises a first submodule terminal (X1) and a second submodule terminal (X2). In said converter, first main terminals (D) of the controllable switching elements (S1, S2) of the at least two submodules (SM; SM1,...,SM8) are thermally connected to a cooling surface of a cooling body (12). Furthermore, the second submodule terminal (X2) of a first of the at least two submodules (SM; SM1,...,SM8) is connected to the first sub-module terminal (X1) of a second of the at least two submodules (SM; SM1,...,SM8). The converter is characterised in that the connection of the second submodule terminal (X2) of the first submodule (SM; SM1,...,SM8) to the first submodule terminal (X1) of the second submodule is carried out by a conductive layer (16), e.g. a metal rail, applied to the cooling surface.

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