

Title (en)

SPACE-SAVING INVERTER WITH REDUCED SWITCHING LOSSES AND INCREASED LIFE

Title (de)

PLATZSPARENDER WECHSELRICHTER MIT REDUZIERTEN SCHALTVERLUSTEN UND ERHÖHTER LEBENSDAUER

Title (fr)

ONDULEUR À FAIBLE ENCOMBREMENT AVEC PERTES DE COMMUTATION RÉDUITES ET DURÉE DE VIE ACCRUE

Publication

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Application

EP 07726940 A 20070315

Priority

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Abstract (en)

[origin: WO2007115893A1] The invention relates to an inverter, and in particular a solar inverter. According to the invention, the inverter has a step-up converter (4), a mains-commutated controlled converter (2) and a filter (6), with the filter (6) being linked on the output side to the AC-side connections 10 (12, 14, 16), and with the step-up converter (4) being linked on the output side to the DC-side connections (8, 10) of the mains-commutated controlled converter (2) with a power semiconductor switch (28) which can be turned off being provided, together with a back-to-back parallel-connected diode (30) in each case as converter valves (T1, T2; T3, T4; T5, T6) for each phase (R, S, T) of the mains-commutated controlled converter (2), and with the controlled side of these power semiconductor switches (28) which can be turned off being linked to a control device (32) to whose inputs phase voltages that have been determined from a power supply system (18) are applied. This results in an inverter, in particular a solar inverter, which costs less and saves more space.

IPC 8 full level

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Citation (search report)

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