

Title (en)

SURGE PROTECTION CIRCUIT AND POWER SUPPLY FOR OPERATING FROM A DC GRID

Title (de)

ÜBERSpannungsschutzschaltung und Stromversorgung zum Betrieb aus einem Gleichstromnetz

Title (fr)

CIRCUIT DE PROTECTION CONTRE LES SURTENSIONS ET ALIMENTATION ÉLECTRIQUE POUR FONCTIONNER À PARTIR D'UN RÉSEAU À COURANT CONTINU

Publication

EP 4387399 A1 20240619 (EN)

Application

EP 22213166 A 20221213

Priority

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Abstract (en)

The invention is in the field of DC power supply and concerns building infrastructure systems, e.g. lighting devices. A surge protection circuit for a power supply interface of a DC-to-DC converter device comprises a serial circuit element connected between the DC input voltage lines configured to implement a low-pass filter, and a linear regulator circuit element including at least one transistor. The invention concerns a DC-to-DC converter device for generating a load current for an electric load, e.g. a LED current for at least one lighting module, from a DC supply voltage. The DC-to-DC converter device comprises a converter circuit configured to generate the load current and to output the load current via an output interface to the electric load, and the surge protection circuit connected between a DC grid interface for obtaining the DC supply voltage and the converter circuit.

IPC 8 full level

H05B 47/24 (2020.01)

CPC (source: EP)

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Citation (search report)

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Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

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