

Title (en)

STEP-DOWN CONVERTER FOR A LIGHT-EMITTING DIODE

Title (de)

ABWÄRTSWANDLER FÜR EINE LEUCHTDIODE

Title (fr)

CONVERTISSEUR ABAISSEUR POUR UNE DIODE ÉLECTROLUMINESCENTE

Publication

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Application

EP 17780748 A 20171009

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Abstract (en)

[origin: WO2018077599A1] The present invention relates to a step-down converter (101) for a light-emitting diode (110), comprising a first switch (201, 205, 291) and a second switch (202, 206, 292) which is connected in series with the first switch (201, 205, 291) between a supply voltage connection (211) and earth (215). The step-down converter (101) also comprises a storage choke (212) which is connected in series with the first switch (201, 205, 291) between the supply voltage connection (211) and an output connection (213, 219). The step-down converter (101) also comprises the output connection (213, 219) which is designed to output a load current (702) to the light-emitting diode (110) on the basis of a choke current (701) through the storage choke (212). The step-down converter (101) also comprises a controller which is designed to operate the first switch (201, 205, 291) and the second switch (202, 206, 292) in the conductive state alternately and periodically depending on a dimming signal.

IPC 8 full level

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