

Title (en)

CONSTANT ON-TIME (COT) CONTROL IN ISOLATED CONVERTER

Title (de)

CONSTANT-ON-TIME (COT)-STEUERUNG IN EINEM ISOLIERTEN WANDLER

Title (fr)

COMMANDE À TEMPS À L'ÉTAT PASSANT CONSTANT (COT) DANS UN CONVERTISSEUR ISOLÉ

Publication

EP 3195455 A4 20180530 (EN)

Application

EP 15841947 A 20150916

Priority

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Abstract (en)

[origin: WO2016044489A1] The present invention discloses a constant on-time isolated converter comprising a transformer with a primary side and a secondary side. The primary side is connected to an electronic switch and secondary-side is connected to a load and a processor. The processor is connected to a driver on primary side through at least one coupling element and to the electronic switch. The processor receives an output voltage or an output current across the load generating a control signal accordingly. The driver receives the control signal through the coupling element and accordingly changes the ON/OFF state of the electronic switch, regulating the output voltage and the output current via the transformer, where the duration of the ON/OFF state of the electronic switch is determined between the moment control signal changes from negative to positive and the moment it changes from positive to negative to achieve a high-speed load transient response.

IPC 8 full level

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H02M 1/0048 (2021.05 - KR); **H02M 1/36** (2013.01 - EP); **H02M 3/33507** (2013.01 - EP KR); **H02M 3/33515** (2013.01 - EP); **H02M 3/33523** (2013.01 - EP); **H02M 3/33592** (2013.01 - EP KR); **H02M 1/0003** (2021.05 - EP); **H02M 1/0006** (2021.05 - EP); **Y02B 70/10** (2013.01 - EP)

Citation (search report)

- [I] EP 2775602 A2 20140910 - POWER INTEGRATIONS INC [US]
- [A] EP 2697900 A1 20140219 - ERICSSON TELEFON AB L M [SE]
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- See references of WO 2016044489A1

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DOCDB simple family (publication)

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