Title (en)

SWITCH-MODE POWER SUPPLY AND A METHOD FOR CONTROLLING AN OUTPUT VOLTAGE OF A SWITCH-MODE POWER SUPPLY

Title (de)

SCHALTNETZTEIL UND VERFAHREN ZUM REGELN EINER AUSGANGSSPANNUNG EINES SCHALTNETZTEILS

Title (fr)

ALIMENTATION À DÉCOUPAGE ET PROCÉDÉ DE RÉGLAGE D'UNE TENSION DE SORTIE D'UNE ALIMENTATION À DÉCOUPAGE

Publication

**EP 3075066 A2 20161005 (DE)**

Application

**EP 14799162 A 20141118**

Priority

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- EP 2014074832 W 20141118

Abstract (en)

[origin: WO2015075010A2] The invention relates to a switch-mode power supply (1) for converting an input voltage (UEIN) into an output voltage (UA), which comprises at least one switching stage (4) controlled by a pulse width modulation circuit (9) in a clocked manner, and a control circuit (8) being provided which acts on said pulse width modulation circuit (9) in order to alter the output voltage (UA) level. The switch-mode power supply (1) is characterised in that the control circuit (8) has a temperature sensor (S) provided to measure a load-dependent temperature (T) of the switch-mode power supply (1), said control circuit (8) being configured such that the output voltage (UA) is lowered as the temperature (T) increases. The invention also relates to a method for controlling an output voltage (UA) of a switch-mode power supply (1).

IPC 8 full level

**H02M 1/32** (2007.01); **H02M 3/156** (2006.01); **H02M 3/335** (2006.01)

CPC (source: CN EP)

**H02M 1/32** (2013.01 - EP); **H02M 3/156** (2013.01 - EP); **H02M 3/24** (2013.01 - CN); **H02M 3/33507** (2013.01 - EP); **H02M 7/219** (2013.01 - CN); H02M 1/327 (2021.05 - EP)

Citation (search report)

See references of WO 2015075010A2

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Designated extension state (EPC)

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