

Title (en)
A POWER SUPPLY

Title (de)
STROMVERSORGUNG

Title (fr)
ALIMENTATION ÉLECTRIQUE

Publication
EP 2647118 A2 20131009 (EN)

Application
EP 11799229 A 20111129

Priority

- DK 2011000142 W 20111129
- DK PA201001089 A 20101201
- DK PA201001129 A 20101216

Abstract (en)

[origin: WO2012072075A2] A power supply (1) for electronic equipment, such as measurement equipment and signal transmitters for industrial control systems, said power supply being adapted to be connected to a wide range of voltages of the supply network and comprising an input stage (2) with an overload protection, a circuit (3) for rectifying the supply voltage, a phase cut circuit (4) for determining the input voltage for a DC/DC converter as well as DC/DC converter (5) of the switch mode type. This results in a power supply with an AC/DC converter which may be connected to a mains voltage supply with voltages in the range from 100 Vac to 690 Vac, and which has a stabilized output voltage. Moreover, a circuit without a mains transformer is provided, in which the inverse voltage of the rectifier and the testing voltage of the charging capacitor are low, and where the circuit may be incorporated in an industrial module.

IPC 8 full level

H02M 7/155 (2006.01); **H01F 27/255** (2006.01); **H02M 1/12** (2006.01); **H02M 1/44** (2007.01); **H02M 7/15** (2006.01); **H02M 7/21** (2006.01); **H02M 7/217** (2006.01); **H02P 29/00** (2006.01); **H04B 3/56** (2006.01)

CPC (source: EP)

H02M 7/2176 (2013.01); **H02M 1/007** (2021.05); **H02M 1/081** (2013.01); **H02M 1/32** (2013.01)

Citation (search report)

See references of WO 2012072075A2

Citation (examination)

US 5517402 A 19960514 - IKEDA HIDEO [JP], et al

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 MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2012072075 A2 20120607; **WO 2012072075 A3 20121108**; DK 177225 B1 20120723; DK 201001129 A 20120602; EP 2647118 A2 20131009

DOCDB simple family (application)

DK 2011000142 W 20111129; DK PA201001129 A 20101216; EP 11799229 A 20111129