

Title (en)

Electronic ballast provided with a thermal safety circuit

Title (de)

Elektronisches Vorschaltgerät mit thermischer Schutzschaltung

Title (fr)

Ballast électronique avec circuit de protection thermique

Publication

EP 0848580 A1 19980617 (EN)

Application

EP 97660142 A 19971211

Priority

FI 965024 A 19961216

Abstract (en)

The invention relates to an electronic ballast provided with a thermal safety circuit, comprising a semi-bridge oscillator circuit (1, 2) and a transformer (3), which controls operation of the oscillator circuit and through which a high-frequency lamp current passes. The ballast is provided with a safety circuit (10), which prevents operation of the ballast as temperature and/or a voltage across the lamp exceeds a given value. The material and dimensioning for the core of the transformer (3) are selected in such a manner that the rise of the core temperature above a given temperature causes, as a result of saturation of the core, an increase in the operating frequency of the oscillator circuit. The safety circuit (10) includes elements for measuring a voltage existing across the lamp and elements for bringing the oscillator to an inactive or stand-by state as the measured voltage exceeds a given value. <IMAGE>

IPC 1-7

H05B 41/00

IPC 8 full level

H05B 41/285 (2006.01)

CPC (source: EP)

H05B 41/2855 (2013.01); **H05B 41/2856** (2013.01)

Citation (search report)

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