

Title (en)

Electronic ballast for fluorescent lamp using silicon-controlled phase-luminosity modulator for adjusting luminosity

Title (de)

Elektronisches Vorschaltgerät mit Phasensteuerung zum Dimmen von Leuchtstofflampen

Title (fr)

Ballast électronique pour commander la luminosité de lampes fluorescentes par contrôle de phase

Publication

EP 1565042 A3 20060125 (EN)

Application

EP 05101127 A 20050215

Priority

- CN 200420003182 U 20040217
- CN 200410100898 A 20041213

Abstract (en)

[origin: EP1565042A2] The present invention relates to an electronic ballast of a fluorescent lamp using a silicon-controlled phase-luminosity modulator for adjusting luminosity. The ballast comprises: (a) a filter and rectification circuit having an output port and connected to a municipal alternating current power supply; (b) a frequency-control and switch circuit having an output port; including an integrated circuit (IC) for controlling frequency and producing switch-triggering signals; (c) an output circuit, having an input port connected to the output port of the frequency-control and switch circuit; (d) light-modulating signal processing circuit, connected to the output port of filter and rectification circuit and the input port of frequency control and switch circuit; (e) direct-current high voltage stabilization circuit, with an input port connected to the output port of filter and rectification circuit, an output port connected to the input port of frequency control and switch circuit, and feedback port connected with the output circuit. This electronic ballast requires only three simple circuits and few components. Thus, it can be manufactured at a lower cost with a smaller dimension. With its stable capacity of light modulating, the ballast of the present invention can be applied easily and widely, especially in the integrated and compact fluorescent lamps.

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H05B 41/14 (2013.01 - KR); **H05B 41/282** (2013.01 - KR); **H05B 41/38** (2013.01 - KR); **H05B 41/3925** (2013.01 - EP KR)

Citation (search report)

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