

Abstract

Circuit arrangement for coil pre-heating of fluorescent lamps

The circuit arrangement comprises an electronic ballast equipment having an inverter (3), at whose output a high-frequency half-bridge voltage (VHB) is supplied to at least one load circuit having a lamp throttle (LDR), the fluorescent lamp (FL), an ignition capacitor (CZ) and a half-bridge capacitor (CHB). In order to achieve a short pre-heating period of the coils (E1, E2) of the fluorescent lamp, a switchable voltage source (TR, DW1, DW2, HS) is provided that can be activated during the pre-heating period and is connected to the output (HBO) of the inverter (3) and that has outputs constructed pair by pair, to which respectively one of the coils (E1 or, respectively, E2) of the fluorescent lamp (FL) is connected in parallel. This voltage source preferably comprises a transformer (TR) having a primary winding (PR) that is coupled to the inverter (3) and is switched transmissive via a switching means (4, HS), and having secondary windings (S1, S2) to which respectively one of the coils (E1 or, respectively, E2) of the fluorescent lamp (FL) is connected in parallel.

Figure 1

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