

Economic efficiency of LED lamps

Background and problem: Due to the ban of conventional incandescent lamps LED lamps are increasingly used for lighting. They consume much less energy than the old light bulbs; producers offer a huge variety of colours and promise a long lifetime. However, the investment costs are comparatively high. Moreover, the efficient operation of LEDs directly on the network requires voltage rectifiers, which are in turn the cause of undesired harmonics.

Task: Within the scope of the work, an evaluation of the economic efficiency of commercially available LED lamps is to be done. In addition to luminous efficacy, price and lifetime, also power quality aspects should be analysed.

Previous Knowledge: Fundamentals of economics, fundamentals of energy engineering

Imparted Knowledge: Profitability analysis, power quality analysis

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