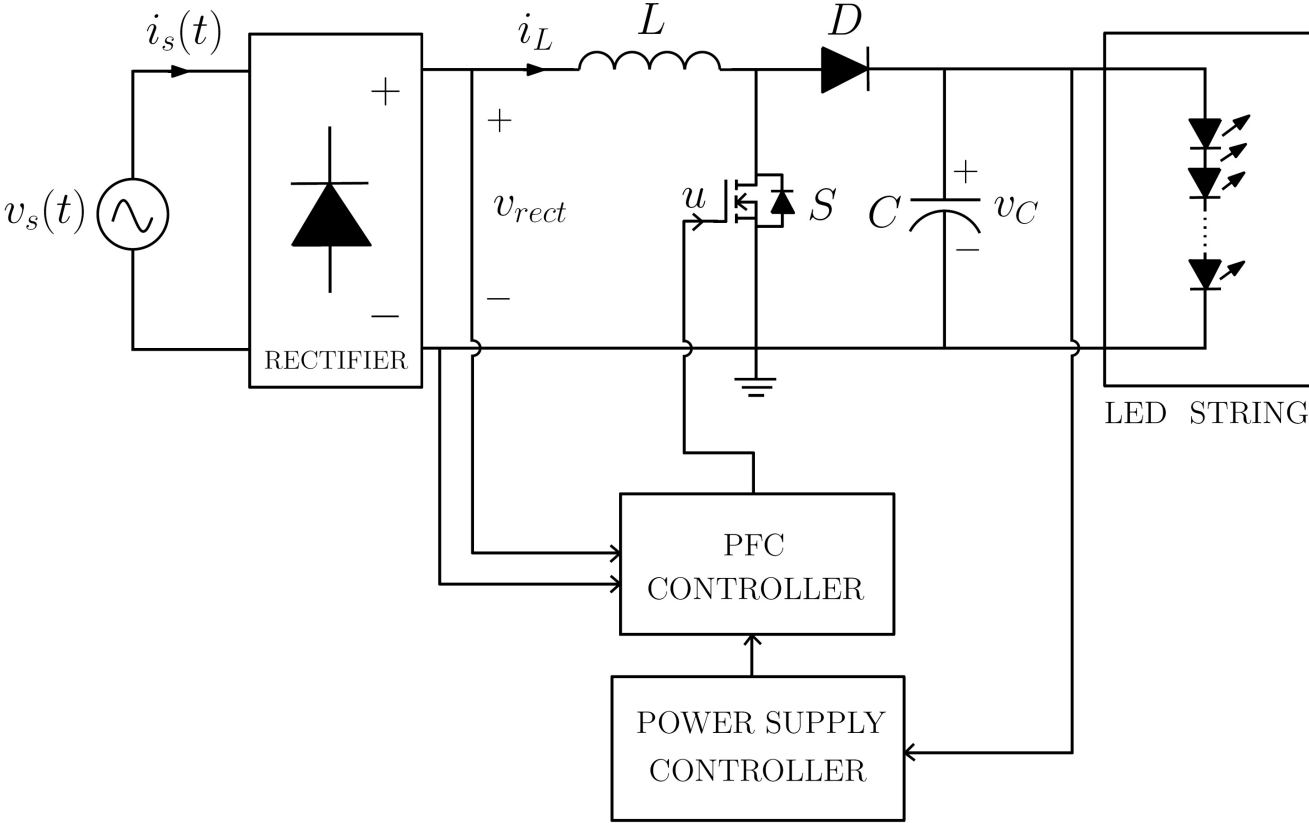




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An LED lamp or LED light bulb is an electric light for use in light fixtures that produces light ... This can form a lamp with improved cost, light distribution, heat dissipation ... Incandescent lamps produce a continuous black body spectrum of light ... They include driver circuitry to rectify the AC power and convert the voltage to an .... Integrated gallium nitride diodes and LEDs mean lighting needs no separate power converters. [IEEE Spectrum Recent Content full text], .... AC-powered LEDs Could Cut the Cost of Lighting /energywise/semiconductors/optoelectronics/acpowered-leds-could-cut-the-cost-of-lighting via IEEE Spectrum .... Visible Light Source Applications-Roland Haitz, Hewlett-Packard: Compound ... When the conventional decrease in linewidths and reduced design rules are ... they will create considerable demands for high-volume, low-cost electronics ... I. Deyhimi, Gallium Arsenide Joins the Giants, IEEE Spectrum, 33 (February 1995).. Home · IEEE Spectrum; AC-powered LEDs Could Cut the Cost of Lighting ... gallium nitride diodes and LEDs mean lighting needs no separate power converters.

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[1]: There is an analogy with hydraulic power: electric voltage corresponds to water ... [3]: Direct Current supply grids for LED lighting, <http://www.led-professional.com/> ... [5]: DC microgrids and the virtues of local electricity, <http://spectrum.ieee.org/> ... [6]: Comparison of cost and efficiency of DC versus AC in office buildings, .... others consider nuclear power in light ... bring designs to market faster and with lower risk. ... The editorial content of IEEE Spectrum magazine does not represent official positions of the IEEE or ... costs and increasing customer satisfaction. ... It doesn't sport a bright organic LED ... Remember, AC power can.. AC Powered LEDs Could Cut The Cost Of Lighting IEEE Spectrum ... way to integrate gallium nitride LEDs and their power supply circuits onto .... According to Penn State engineering professor Jian Xu, who led the research, integrating the LED's driver system onto the gallium nitride chip could cut the cost of manufacturing LED lighting as well as the cost of maintaining that lighting.. A light-emitting diode (LED) is a semiconductor light source that emits light when current flows ... The first visible-spectrum (red) LED was developed in 1962 by Nick Holonyak, ... LEDs developed by Seoul Semiconductor can operate on AC power without ... This is more efficient and can lower initial costs. ... IEEE Spectrum. bdeb15e1ea

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