

LED LIGHTING: AN ALTERNATIVE SOLUTION

Lighting is an important aspect of not just households and industries but also life, in a larger perspective. A perfect illumination pattern can remove the gloominess around and instill happiness and life. Lighting takes us away from darkness, in a world of hopes and desire. It can cheer up the moods of the people and make way for happiness and prosperity.

Hence, it is important to opt for a perfect lighting solution that is not only cost effective but also attractive, innovative and energy efficient. LED lighting offers a complete solution in this regard. It is one of the most commonly and most extensively used lighting forms in a variety of devices, applications, houses and industries. LED technology has revolutionized the way lighting is being done.

Basically, it is an abbreviation for Light Emitting Diode, which is based on principles of a semi-conductor. Earlier the range of bulbs based on LED technology was mainly low intensity bulbs but visible, ultraviolet and infrared wavelengths bulbs are also available in market. LED lighting can be easily achieved through LED bulbs that are widely acknowledged for their features like perfect brightness, durability and compact size.

Owing to the compact size, these bulbs have facilitated the development new text and video displays and sensors. Moreover, LED technology based bulbs can be used as replacements for traditional light sources in aviation lighting, automotive lighting (particularly indicators) and in traffic signals. Some of the important features of LED lighting are low energy consumption, longer functional life, improved robustness, smaller size, faster switching and greater reliability.

However, LED bulbs require more adept management of current and heat than other sources of lighting. LED lighting has emerged as a reliable source of lighting and is most appreciated for its compact sizes. Small size allows the bulbs based on this technology to fit into almost any device including remote control systems of electronic goods like television sets, DVD players and many others. LED lighting solutions are cost effective compared to other solutions and very safe to use. Bulbs based on LED technology are made using different raw material depending upon the application as well as requirement of demand of the users.

Moreover, LED bulbs are available in various colors which lend them a very aesthetic and attractive look. LED lamps are also available in the market. These lamps are appreciated for their reliable performance and ample

illumination features. Mostly, multiple diodes are used in the lamp in order to achieve desired illumination.

These lamps also have an internal circuit which allows usage from an AC voltage source. LED lamps consume less energy and are available in multi colored and white light form. This ensures these lamps are applicable for both general and special purpose lighting. LED lighting has emerged as an excellent alternative to the traditional fluorescent lighting and hence is being used in households and different industries including electronics and electric. More studies and research in the field are being conducted in order to further advance the existing technology.

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