

# PERMLIGHT

## 1/28/2005 Permlight Announces Issuance of Key Thermal Management Patent

### Permlight Announces Issuance of Key Thermal Management Patent

7th Patent on Thermal Management and LED Lighting Systems for Signage, Safety, and Architectural Applications  
Tustin, CA - January 26, 2005 - Permlight Products, manufacturers of the EnbrytenLED line, announced today the issuance of a new patent covering its thermal management techniques to increase brightness in LED systems without adversely affecting lifetime and allowing for a very low cost solution to be produced.

The 6,846,093 patent, titled "Modular mounting arrangement and method for light emitting diodes" claims:

A modular light emitting diode (LED) mounting configuration is provided including a light source module having a plurality of pre-packaged LEDs arranged in a serial array. The module includes a heat conductive body portion adapted to conduct heat generated by the LEDs to an adjacent heat sink. A heat conductive adhesive tape connects the LED module to the mount surface. As a result, the LEDs are able to be operated with a higher current than normally allowed. Thus, brightness and performance of the LEDs is increased without decreasing the life expectancy of the LEDs. A plurality of such LED modules can be pre-wired together in a substantially continuous fashion and provided in a dispenser, such as a roll or box. Thus, to install a plurality of such LED modules, a worker simply pulls modules from the dispenser as needed, secures the appropriate number of modules in place, and connects the assembled modules to a power source.

This application is a continuation of U.S. application Ser. No. 09/948,338, which was filed on Sep. 5, 2001, now U.S. Pat. No. 6,578,986, and which claims priority to U.S. application Ser. No. 60/301,951, which was filed on Jun. 29, 2001.

"We are pleased that the patent office has awarded Permlight with this new patent that claims both serial and parallel configuration of LED systems," commented Manuel Lynch, President and CEO of Permlight Products. "We shipped over 100 miles of these products in 2004 marking a major milestone in the channel letter and architectural lighting market that is now accepting LEDs as a viable light source. We believe our patented techniques of thermally managing LEDs in an application is the cornerstone to providing the market with low cost, high performance, and reliable lighting systems."

Founded in 1995, this is Permlight's 7th issued patent on the subject of thermal management and lighting signs, floors, ceilings, surfaces, and walls with LEDs. The company has several licensees of its patented products.

### About Permlight

Permlight, a premier provider of energy efficient LED lighting solutions, designs and manufactures LED Lighting Systems and power supplies for indoor and outdoor applications. With its patented thermal management technology, the company provides products that are rated as the brightest and most cost effective systems in the industry. Its patented thermally managed LED fixtures provide ample lighting without compromising lifetime. More information may be obtained by visiting its website at <http://www.permlight.com>.