

LG Innotek's high-power packaged LEDs will light up 2018 Pyeongchang Winter Olympics stadium



Seoul, South Korea – LG Innotek has announced that the company mass-produces high power packaged LEDs (3535 Gen4 series) for the 2018 Pyeongchang Winter Olympics stadium.

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The company said that the LED packages are supplied for lightings of three stadiums in Pyeongchang, including the Alpensia Ski Jumping Center and stadiums for biathlon and cross country. It will be mounted in the SUFA series sports lighting manufactured by KMW and installed in the stadiums by the end of this year.

These packaged LEDs boast an efficacy of 100lm/W in 10W category and a color rendering index (CRI) of 90. The number of packages mounted on the lighting was reduced by half while maintaining the same level of light intensity.

The sports lighting needs to brighten the stadium evenly for a long duration, so it requires high performance and stable light supply at the same time.

Previously used metal-halide lamps making them difficult to install and maintain due to their heavy weight and volume. Also, their lifespan is 10,000 hour, 20% shorter than LED lighting, and it is difficult to produce different colors of lighting using them, limiting their usage.

But LED lighting had limitations in its usage due to the heat generated by LED when the lighting remains turned on for a long time. Turning on the lighting with high power made the inside temperature to rise, affecting the lifespan of the lighting.

LG Innotek secured reliability of the lighting by implementing a circuit design optimized for sports lighting and minimizing the heat generation with its proprietary heat dissipation structure. In addition, its low flicker makes it more useful for broadcasting. As the lighting uses a smaller number of LED packages than existing products, the company could enhance the price competitiveness of the finished lighting as well.

The company is expected to make inroads into the high-end LED lighting market by leveraging their experience of providing stadium lightings for the Pyeongchang Winter Olympics.

LG Innotek has aggressively made a foray into the markets of advanced countries such as Europe, North America, and Japan based on its proprietary technologies and business competitiveness that it has accumulated for the past 15 years.

The company expands its business areas into adjacent fields such as UV LED and LED Lighting by using its converged technologies such as optical technology and LED lighting technology.

Suk-Hwan Kang, a head of the LED marketing division, said, "We will continuously strive to supply LED lighting solutions that customers want by utilizing our innovative technologies and quality assurance system."

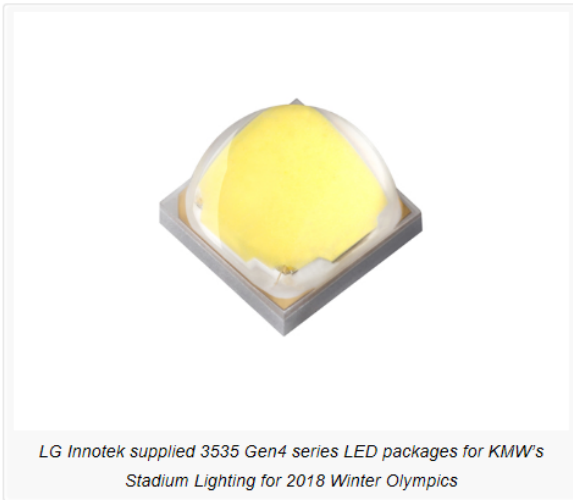


LG Innotek Supplies LED Packages for Winter Olympic Stadium Lighting

on August 18, 2016 in Latest News, Single and Multi-chip Packaged LEDs

Article Type: Feature, News

LG Innotek reported that the company produces the high-power LED packages (3535 Gen4 series) that the LED lighting for the 2018 Pyeongchang Winter Olympics stadium uses. The company said that it supplied the LED packages for illuminating some of the Winter Olympic stadiums in Pyeongchang, including the Alpensia Ski Jumping Center and stadiums for cross country and biathlon. KWM will manufacture and supply its SUFA Series sports lighting that will employ the 3535 Gen4 series LEDs from LG Innotek. The sports lighting will be installed in the stadiums by the end of this year.



The 10W category of these LG Innotek LEDs boasts an efficacy of 100lm/W with a color rendering index (CRI) of 90. The high efficacy allowed KWM to reduce the number of packages mounted on the lighting by half while maintaining the same brightness. The sports lighting needs to light the stadium evenly for a long duration. So, the lighting requires both a high performance and stable light source.

The metal-halide lamps that the stadiums previously used are difficult to install and maintain due to their heavy weight and volume. Also, the lifespan of the metal-halide lights is 10,000 hours, which is 20% shorter than the LED lighting. An additional disadvantage of the metal-halide is that producing different colors is difficult. Therefore, the usage of metal-halide lighting at the stadiums is limited. Most LED lighting also has performance limitations. Turning the lighting on with high

power makes the inside temperature rise, affecting the lifespan of the lighting.

LG Innotek implemented a circuit design that it optimized for sports lighting and minimized the heat generation with its proprietary heat dissipation structure to overcome some of these issues. The low flicker of the LED packages makes them more useful for broadcasting. Also, as the lighting uses a smaller number of LED packages than existing products, KMW could reduce the price of the finished lighting as well.

Most LED lighting also has performance limitations. Turning the lighting on with high power makes the inside temperature rise, affecting the lifespan of the lighting. LG Innotek implemented a circuit design that it optimized for sports lighting and minimized the heat generation with its proprietary heat dissipation structure to overcome some of these issues. The low flicker of the LED packages makes them more useful for broadcasting. Also, as the lighting uses a smaller number of LED packages than existing products, KMW could reduce the price of the finished lighting as well.

LG Innotek plans to make inroads into the high-end LED lighting market by leveraging their experience of providing the light sources for stadium luminaires for the Pyeongchang Winter Olympics. Suk-Hwan Kang, the head of the LED marketing division, said, "We will continuously strive to supply LED lighting solutions that customers want by utilizing our innovative technologies and quality assurance system."

LG Innotek to Light up 2018 Pyeongchang Winter Olympics Stadium

LG Innotek announced that the company mass-produces high power [LED](#) packages (3535 Gen4 series) for the 2018 Pyeongchang Winter Olympics stadium.

The company said that the LED packages are supplied for lightings of three stadiums in Pyeongchang, including the Alpensia Ski Jumping Center and stadiums for biathlon and cross country. It will be mounted in the SUFA series sports lighting manufactured by KMW and installed in the stadiums by the end of this year.



LG Innotek's High Power Package (10W). (LG Innotek/LEDinside)

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But LED lighting had limitations in its usage due to the heat generated by LED when the lighting remains turned on for a long time. Turning on the lighting with high power made the inside temperature to rise, affecting the lifespan of the lighting.

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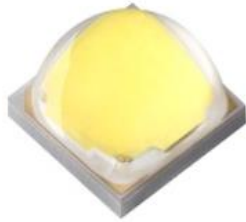
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LG Innotek推高功率LED封裝 點亮2018南韓冬奧場館

2016-08-18 10:37 [編輯 : emmachang]

LG Innotek宣布推出高功率LED封裝(3535 Gen4 系列) 用於2018南韓平昌冬季奧運會。



LG Innotek 推出高功率LED封裝(3535 Gen4 系列)。(圖片來源:LG Innotek)

公司表示LED封裝將會用於南韓平昌的三個奧運場館，其中涵括阿爾卑西亞跳台滑雪運動場以及冬季兩項和越野滑雪。LG Innotek的LED封裝將會裝在KMW所生產的SUFA運動專用照明上，並且在2016年年底安裝到場館中。

LED封裝照度在10W時達每瓦100流明，且演色性達90 CRI。裝設燈具上的LED儘管減少一半，仍然能夠維持同樣的亮度。這款運動照明燈具將需要長時間點亮，因此需要高光品質的表現同時又具備穩定的光輸出。

先前使用的高強度氣體放電燈安裝上難度較高，且其重量及龐大體積也成為維修的雙重挑戰。同時，他們的壽命只有大約1萬小時，僅只有LED照明的五分之一壽命；再加上這種高強度氣體放電燈也不能隨意變換光色，也對使用上形成限制。

反之，在長時間使用上，LED照明在長時間使用的情況下，散熱問題也是挑戰之一。長時間以大功率的方式發光，燈具內部的溫度會升高進而影響燈具的壽命。藉由特殊的電路以及散熱架構設計，LG Innotek成功讓運動LED照明能兼具穩定性同時避免燈具內溫度過高。除此之外，低頻閃也提升現場轉播的影像品質。相較於現有產品，此次推出的照明燈具使用較少顆LED封裝，LG Innotek仍然能夠確保產品價格具競爭力。

公司希望能夠藉由此次平昌的奧運場館照明成功打入高端LED照明市場。LG Innotek正積極打入先進國家市場，其中涵括歐洲、北美和日本等地。

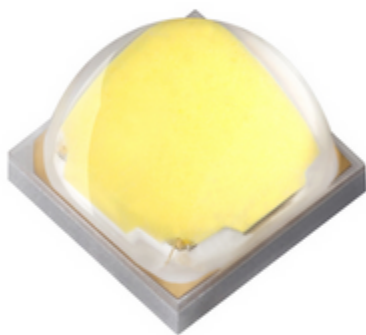
LG伊诺特为2018年韩国冬奥会体育场照明提供LED封装

2016-08-19 11:55:21 来源：中国半导体照明网

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导读： LG伊诺特提供的LED封装功率为100lm/W，显色指数为90。高能效可以使封装数量减半同时保持相同的亮度。体育照明需要长时间均匀地照亮体育场。因此，照明需要高性能和稳定的光源。

OFweek半导体照明网讯 据报道，2018年韩国平昌冬奥会场馆将使用LG伊诺特公司生产的大功率LED封装（3535 Gen4系列）。该公司表示，它将为阿尔卑西亚跳台滑雪中心及越野滑雪和冬季两项的比赛场馆提供LED照明封装。KVM将生产并供应其SUF A系列的体育照明，该照明将采用LG伊诺特的3535 Gen4系列封装。体育照明将在今年年底开始在体育场馆安装。



LG伊诺特为2018年冬奥会提供的3535 Gen4系列LED封装

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由于重量和体积大，体育场馆以前使用的金属卤化物灯很难安装和维护。此外，金属卤化物灯的寿命是10000小时，这是比LED灯短了20%。金属卤化物灯的另一个缺点是，很难产生不同的颜色。因此，在体育场馆使用金属卤化物灯非常有限。大多数LED灯也有性能限制。打开高功率的LED灯会使内部温度上升，影响使用寿命。

LG伊诺特采用电路设计，优化体育照明，并利用其专有的散热结构减少热量的产生。低闪烁的LED封装使它们可用于广播。同时，LED封装使用数量的减少有助于降低生产成本。

LG伊诺特计划以此为平台进军高端LED照明市场。LED市场营销部的负责人Suk Hwan Kang表示：“我们将利用我们的创新技术和质量保证体系为客户提供LED照明解决方案。”

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ledinside.com | Posted: 18 Aug 2016, 18:34

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【LED】LGイノテック、2018平昌冬季オリンピック競技場の照明用高出力パッケージ 供給

最終更新日:2016年8月18日

作成日:2016年8月18日

<韓国ソウル発>LGイノテック (LG Innotek CO.,Ltd.) は2016年8月17日、2018平昌冬季オリンピック競技場のための高出力LEDパッケージ (3535 Gen4シリーズ) を提供することを発表した。

同社は、平昌アルペンシア・スキージャンプセンター、バイアスロン、クロスカントリーの3つの競技場に設置される照明用LEDパッケージの量産を開始したことを明らかにした。LGイノテックのLEDパッケージは、移動通信装備会社であるKMWのスポーツ照明であるSUFAシリーズに搭載され、2016年末までに競技場に設置される予定だ。

同LEDパッケージは、100 lm/Wの10W級高出力パッケージ。演色性も90以上と性能を大幅に高めた。照明に装着されるパッケージの数を50%に減らしても同等水準の光量を実現した。

スポーツ照明は、長時間、競技場の内部を均一に照らさなければならないだけに高い性能と安定的な光の供給が必要となる。

従来は、スポーツ用の照明としてメタルハライドランプを使用していたが、製品自体が重く、かさばるため設置および維持が困難であった。寿命がLED照明に比べて1万時間で20%水準と短いだけでなく、多彩な光の照明の実現が難しいため、その使用は限定的なものであった。

反面、LED照明は、長時間、照明を稼動する際にLEDから発生する熱で商用化に限界があった。高出力で製品を駆動していると、内部の温度が急速に上昇して照明の寿命に影響を与えるためだ。

LGイノテックは、照明に最適化された回路デザインと独自の放熱構造で発熱を最小化し、信頼性の高さを確保した。また、Flickerの発生率が低く、放送中継にもより適している。従来より少ない数のLEDパッケージで同一の明るさの照明を実現することができ、照明完成品の価格競争力も高めることができた。

同社は、今回の平昌冬季オリンピック競技場への照明供給を機に高級LED照明市場の攻略に拍車を掛けるものと期待される。

LGイノテックは、過去15年あまりの間に蓄積したLED分野における独自の基礎技術と事業競争力をもとにヨーロッパ、北米、日本などの先進市場攻略に積極的に乗り出している。LED市場において照明用パッケージおよびモジュール事業を拡大してLED分野におけるグローバルトップ企業を目指している。

また、光学技術、LED光源技術などコア技術を融合して、UV LED、車両用LEDなど隣接領域へと持続的に事業領域を拡大していく予定だ。

カン・ソクファンLEDマーケティング担当は、「革新技術と完璧な品質で、顧客が望む性能のLED照明ソリューションを提供できるよう持続的に努力していきたい」と述べた。



LGイノテック ハイパワーパッケージ (3535 Gen4 10W)