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**Dimmable
LED Driver**



**Product Catalogue
2017 01**



Product Design & Innovation

Over 30 R&D members, 8 design teams are concentrating on new product development. We launch over 20 new products each season, Merrytek has clearly led the way in developing and innovating intelligent control technology.

Focussing on intelligent control while constantly innovating

About Merrytek

Merrytek, founded in 2011, focuses on intelligent products for the lighting control industry.

We design and manufacture innovative microwave motion sensors, integrated sensor, LED drivers and 0/1-10V, Triac & DALI dimmable LED drivers for lighting & electrical manufacturers, distributors, wholesalers, retrofit projects, retail chain stores etc..

With the effort of over 30 R&D members and ISO9001:2008 a qualified production line, Merrytek supplies over 100 models with an output volume of over 400k units per month for numerous applications.

Why Merrytek

Our R&D staff and engineering team have over 20 years experience in designing intelligent lighting control products. Merrytek has been continuing to focus on development of intelligent and innovative lighting control products. We ensure our customers have the best choice as well as competitive pricing in the lighting controls market.

In June 2016, Merrytek moved to a larger premises in Shenzhen, a location that offered room for future expansion as well as improved customer service.

Quality & Control

Our products are sold to all over the world, the products are 100% tested over 4 times in whole production procedure: parameter checking, high-pot test, flickering rate test, aging test and EMI test.



Sales & Service

Merrytek has built the sales networks in Germany, The USA and Scandinavia, we provide 7x24 technical support and intimate service to our clients.

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About Merrytek Dimmable LED Driver



Flicker-free led dimming technology

For traditional lights, for example, incandescent, halogen and fluorescent lights, there will be 100 Hz or 120 Hz flicker (in US) could occur which are powered by AC source directly. It should not be flickering as LED is DC power, but, there were be risk to encounter flickering because inferior design of LED driver and dimming.

Although flickering over 100Hz may not be detected by human eyes, it makes people uncomfortable, causing headaches and other maladies. When flickering frequency is integral multiple of high-speed objects, human eyes will see the object is still. That will cause industrial injury. For example, the worker may be hurt by high-speed lathe, as he/she will think it is still as flickering.

Merrytek developed PWM + PFM flicker-free dimming technology can eliminate nearly the flickering for 2%-100% dimming range.

Stand-by power below 0.5W

Merrytek LED driver comply with the latest energy consumption standard. Stand-by power of DALI, 1-10V, PUSH dimmable LED drivers are below 0.5W.

Identifying of artificial LED light and natural light

Daylight harvesting sensor driver on the market can not be built-in LED luminaires as it is interfered by LED light. Merrytek patent daylight detecting sensor driver is able to identify artificial light and natural light. It can be installed inner LED luminaires and achieve daylight harvesting easily.

Application



Corridor

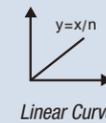
Stairwell

Warehouse

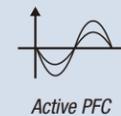
Car Park

 Office/
Meeting room

Merrytek Dimmable LED Driver Features



The output current of LED driver can be adjusted linearly.



LED driver has positive active power factor function, the harmonic current of power input is small. Small interference to the power grid, it can improve the utilization of the power grid.



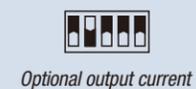
LED driver can adjust the light through the 1-10V dimmer, the output current of LED driver and the voltage of 1-10V terminal can be adjusted linearly.



LED driver can adjust the light through the PUSH switch, it is able to turn on/off the driver by pressing the PUSH switch shortly and to adjust the light level when long pressing the switch. The same PUSH switch can connect and control multiple LED drivers and achieve dimming synchronization.



LED driver has PUSH dimming memory function. When adjusting to the desired brightness, the MCU (Micro controller Unit) of the internal driver will save this record. When turning on the driver again, it will restore the previous brightness level automatically.



The user can select different current through the DIP switch and fit the corresponding LED lamp.



DALI LED driver has the DALI interface, it meets the requirements of the DALI protocol, achieves the soft lighting adjustment, and real-time transmits the brightness values and power status information. It is available on the market mainstream DALI master for dimming control.



DALI LED driver has logarithmic dimming function, it can achieve lighting soft adjustment.