



The Technology Trend of LED Drivers for LED Display

Applications: Current Uniformity

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Foreword

LED panels can be seen almost everywhere from shopping malls, stadiums, to highways. With a variety of applications, LED display manufacturers are facing severe competition and challenges on the image quality of LED panels. The fundamental problem that influences the image quality of LED panels is the uniformity of LED panels. This article will address more in details on how to select the right LED drivers to improve the uniformity of LED panels.

Uniformity Improvement on LED Panels by Selecting LED Drivers with Good Output Current Uniformity

One of the most important factors that may influence the image quality of LED panels is the uniformity of the LED panels. However, the uniformity of LED panels is decided by two factors:

1. the brightness uniformity of LEDs;
2. the output current uniformity of LED drivers.

The most common way to get a better brightness uniformity of LEDs is to pick LEDs from tighter bins to reduce the variations during LED manufacturing process. However, binning is a time consuming and costly process, and the tighter bins the more expensive it is to do the binning. By choosing LED drivers with good current uniformity, users are more flexible to select LEDs from more bins to save the cost of LEDs.

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