



INDICE SEMICONDUCTOR LED MR16 DRIVER IC VS COMPETITORS

Description of Feature	G2 IC INDICE0002	G3 IC INDICE0308 /16/20	Competitor 1	Competitor 2	Competitor 3	Competitor 4	Competitor 5	Competitor 6
Die Area	6.75mm ²	2mm ²	2-stage solutions infringe upon patents of a major global lighting manufacturer.					
Topology	Boost	Boost	Boost-Buck	Boost	Hysteretic Boost	Hysteretic Boost	Boost-Buck	Buck
Electronic transformer compatible	✓ 99%	✓ 99%	✓ 85%	✗ 70%	✗ 70%	✗ 75%	✓ 85%	✗ No
Deep dimming	✓ Yes - 0% light	✓ Yes - 0% light	✓ Yes due to internal fan	✗ No - 20% light	✗ No - 20% light	✗ No	✗ No	✗ No - 20% light
Leading & trailing edge dimming	✓ Yes	✓ Yes	✗ Yes	✗ No	✗ No	✓ Yes (limited dimmer set)	✓ Yes	✗ No
Active thermal management	✓ Yes - Active Temperature Management	✓ Yes - Active Temperature Management	✗ Yes - Fan forced	✗ No - Thermal shutdown	✗ No - Thermal shutdown	✓ Yes - Over temperature protection	✗ No - Thermal shutdown	✗ No
Driver efficiency	✓ 87-90%	✓ 90%	✗ 65%	✗ 82% claim	✗ 82% claim	✓ 80%	✗ 65%	✗ 82%
EMC compliance on electronic transformer	✓ CISPR15/FCC	✓ CISPR15/FCC	✓ Yes	✗ No	✗ No	✗ No	✗ No	✗ No
LED voltage range	✓ 3-40V	✓ 3-40V	✗ 12V	✓ Up to 48V	✓ 6.5V - 42V	✗ 20-40V	✗ 12V	✗ <9V
Power factor on electronic transformer	✓ 0.92	✓ 0.92	✓ 0.90	✗ 0.85	✓ 0.90	✗ 0.90	✓ 0.90	✗ 0.50
Switching frequency	✓ Up to 2MHz asynchronous	✓ Up to 2MHz asynchronous	✗ 600kHz	✗ 300kHz	✗ 50kHz - 1.5MHz	✓ Up to 700kHz	✗ Up to 800kHz	✗ 300kHz
Asynchronous current regulation	✗ No	✓ Yes - INDICE0320	✗ No	✗ No	✗ No	✗ No	✗ No	✗ No
Active rectifier controller	✗ No	✓ Yes	✗ No	✗ No	✗ No	✗ No	✗ No	✗ No