



F A Z E DOWNLIGHT
DRIVERS



Engineered to work, so you can focus on what matters.

Our drivers have been crafted, engineered, and tuned to provide you with the quality to match our luminaire range. With a true flicker-free rating, a potted enclosure, a practical range of dimming, and all the core features to make our drivers a great option to enhance any space.

With our signature downlight ranges being designed and tested here in Australia, we're able to fine-tune and optimise them to significantly improve energy efficiency, in turn providing a much greater quality of light with an exceptional lifetime rating.

True Flicker-Free

A true flicker-free experience is the hallmark of high quality lighting. Improving not only the efficiency, but vastly improving the visual quality of your space.

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Phase-Cut Dimming

As our downlights & drivers continue to improve in output and efficiency, a dimmer is must for creating the perfect ambience in your space.

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High Quality Design

Learn all the ways our drivers are built to be exceptional; our potted enclosures, high efficiencies, and great operating temperatures.

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A Lifetime Of Light

High-quality drivers enable our luminaires to maintain consistent, and stable light output over time by minimising stress on critical components, ensuring the light retains its lumen output, colour rendering, and overall performance for longer.

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Product Specifications

Find all the specifications in one spot, and learn what sets us apart.

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★ Edge 100 G3 | Silo 40

True Flicker-Free

Our luminaire drivers deliver a true flicker-free experience, by utilising a DC constant current, which completely eliminates the flickering of an AC driver, paired with an exceptionally low current ripple, the light output remains stable and consistent under any condition.

This combination completely removes flicker, even flicker that isn't visible to the human eye, supporting better visual comfort and reducing strain, even in sensitive environments. Compared to a standard driver, ours can provide an experience with uncompromising stability, comfort, and performance.

What Does A Flicker-Free Driver Change?

Our FAZE Flicker-Free Drivers transform the standard Alternate Current supply into Direct Current. This essentially provides the LED with a constant current, completely and entirely eliminating flicker.

FAZE FLICKER-FREE DRIVERS

Direct Current
0Hz – No flashing

DRIVERS WITH FLICKER

Alternate Current
50Hz – 50 flashes per second

How Flickering Lights Can Cause Harm

As our eyes attempt to adjust 50 times per second to a flickering light, we become prone to a variety of health concerns, as well as practical deficits in our ability to be productive. Let's go over these, and how they affect you:

HEADACHES, FATIGUE, & EYE STRAIN

Flicker in lighting, even when not consciously visible, can disrupt the visual system and lead to headaches, eye strain, and general discomfort. Prolonged exposure is also associated with increased fatigue, as the brain has to work harder to adjust to a constantly changing light brightness.

LIGHT SENSITIVITIES

Flickering lights can be particularly distressing for individuals who are sensitive to light, as more subtle fluctuations may cause sensory overload and discomfort. This can lead to an increase in anxiety, difficulty concentrating, and a reduced sense of well-being.

SAFETY HAZARDS

Flickering lights can create serious safety hazards by impairing visual perception, making it harder to accurately judge motion or detect moving objects. The stroboscopic effect can cause rotating or moving machinery to appear slowed, stationary, or moving irregularly, increasing the risk of accidents and injuries.

Current Ripple

Current ripple in LED lighting is the oscillation of the DC driving current, or small AC components within. This oscillation causes flickering (even in drivers stated to be flicker-free), creating worse luminaire performance, and a lower luminaire lifespan.

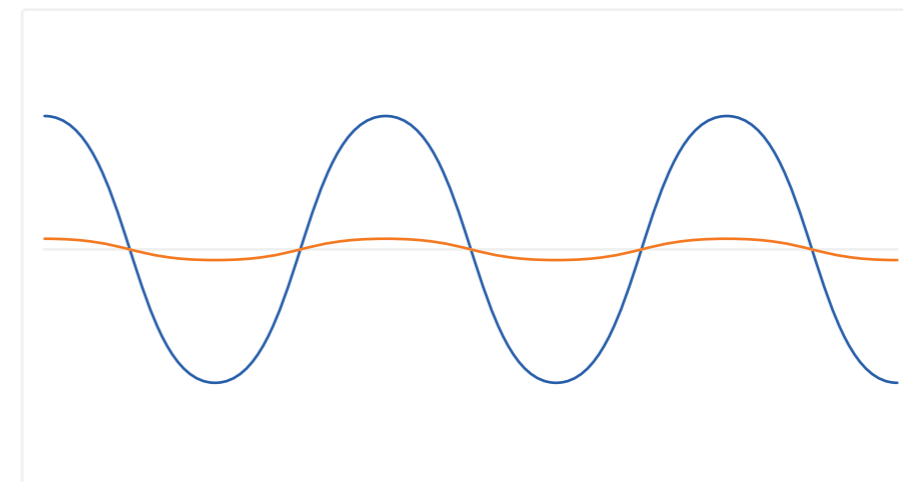
The architectural standard for current ripple in flicker-free drivers is <3%. Anything higher and the current ripple will reintroduce flicker, and can create breathing effects in your lighting.

FAZE STANDARD (ARCHITECTURAL STANDARD)

<3%

INDUSTRY STANDARD

<20%



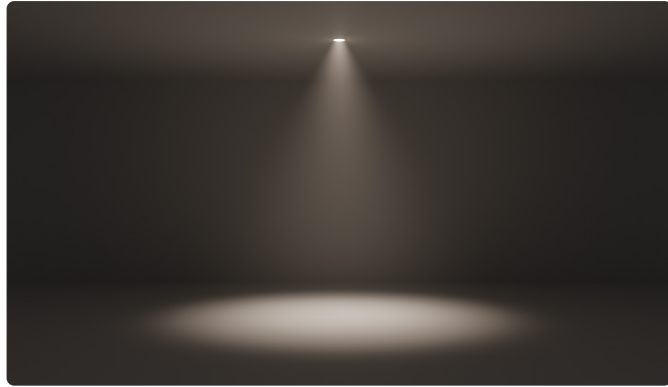
High Quality Design

As life gets busy, utilising high quality and durable equipment is one of the easiest ways to cut back on your mental load. Each of our drivers have been meticulously engineered and fine tuned to work as efficiently and durably as possible.

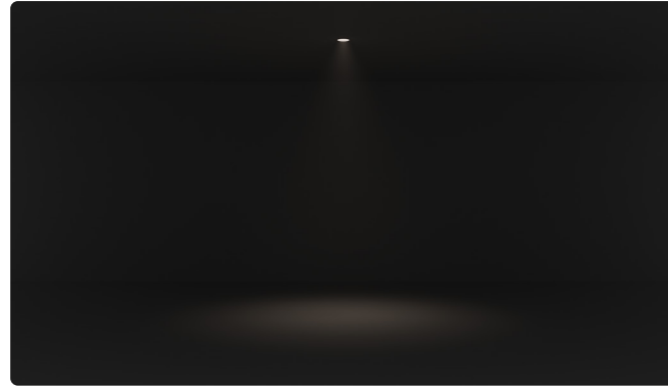
Phase-Cut Dimming

Our drivers are equipped to dim through either trailing edge or leading edge dimming, and are able to dim from their full output all the way to 1%.

FULL BRIGHTNESS



DIMMED TO 1%



Potted Enclosure

Encapsulated in a protective layer that simultaneously shields from exterior interference, and absorbs vibrations, resulting in a driver that performs better while withstanding harsher conditions.



Power Factor

Designed for efficiency, the drivers maintain a strong power factor of more than 0.90, helping to optimize energy usage and reduce electrical losses.



Surge Protection

Additionally, built-in surge protection ranging from 500V to 2000V ensures robust performance and long-term reliability.



A Lifetime Of Light

The synergy between our drivers and luminaires not only provides an exceptional efficiency, but helps to preserve the accurate colour rendering, and maintain the lumen output.



Colour Rendering

With downlights commonly highlighting architectural details and finishes, maintaining their colour rendering is one of our top priorities. A high quality driver keeps the stress on our LED chips low, giving them the best conditions to work.



Lumen Output

Maintaining minimal stress on our downlights over their lifetime allow them to produce 90% of their original light output after 55,000 hours, or in residential use, after 18 years.



Lifetime

With a lifetime rating of 50,000 hours and the assurance of a 5-year warranty, it's designed for long-term confidence and peace of mind.

Specifications

600mA Phase-Cut Driver



DIMENSIONS L 155mm W 48mm H 28mm

GENERAL SPECIFICATIONS

POWER 600mA 240V Flicker Free Phase-Cut
DIMMING Phase-Cut Dimming

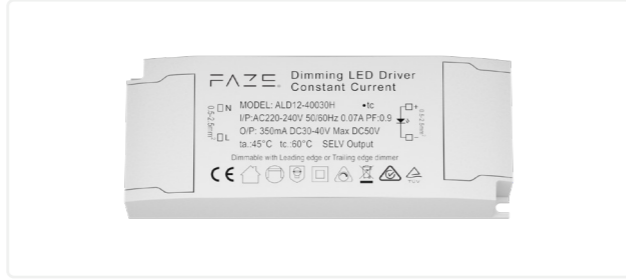
IN-DEPTH SPECIFICATIONS

RATED INPUT VOLTAGE AC 220-240V
FORWARD VOLTAGE RANGE 30-40V
MAX OUTPUT VOLTAGE (NO LOAD) 47V
FIXED OUTPUT CURRENT 600mA
MAX INPUT CURRENT 80mA
FULL LOAD EFFICIENCY 86%
MAX INPUT POWER 28W
MAX OUTPUT POWER 24W
POWER FACTOR > 0.90
OVERVOLTAGE PROTECTION YES
HIPOT TEST YES
MIN AMBIENT TEMP. TA -20°C
MAX AMBIENT TEMP. TA 45°C
MAX CASE TEMP. TC 75°C
STORAGE TEMP. 10-25°C
STROBOSCOPIC DUTY RADIO < 5%
THD FULL LOAD < 10%
THD MIN LOAD < 8%
CURRENT RIPPLE < 3%
SURGE PROTECTION 500V
DIMMING RANGE 10% - 100%
DESIGN LIFETIME 50,000hrs

COMPATIBLE LUMINAIRES

EDGE 135 [25W]
 LITE 125 [25W]

350mA Phase-Cut Driver



DIMENSIONS L 111mm W 42mm H 25mm

GENERAL SPECIFICATIONS

POWER 350mA 240V Flicker Free Phase-Cut
DIMMING Phase-Cut Dimming

IN-DEPTH SPECIFICATIONS

RATED INPUT VOLTAGE AC 220-240V
FORWARD VOLTAGE RANGE 30-40V
MAX OUTPUT VOLTAGE (NO LOAD) 50V
FIXED OUTPUT CURRENT 350mA
MAX INPUT CURRENT 80mA
FULL LOAD EFFICIENCY 85%
MAX INPUT POWER 16.5W
MAX OUTPUT POWER 14W
POWER FACTOR > 0.90
OVERVOLTAGE PROTECTION YES
HIPOT TEST YES
MIN AMBIENT TEMP. TA -20°C
MAX AMBIENT TEMP. TA 45°C
MAX CASE TEMP. TC 65°C
STORAGE TEMP. 10-25°C
STROBOSCOPIC DUTY RADIO < 5%
THD FULL LOAD < 10%
THD MIN LOAD < 8%
CURRENT RIPPLE < 3%
SURGE PROTECTION 500V
DIMMING RANGE 10% - 100%
DESIGN LIFETIME 50,000hrs

COMPATIBLE LUMINAIRES

EDGE 110 G3 [13W] PRO ROUND G3 [13W]
 EDGE 100 G3 [13W] PRO SQUARE G3 [13W]
 EDGE WALLWASHER [13W]

300mA Phase-Cut Driver



DIMENSIONS L 111mm W 42mm H 25mm

GENERAL SPECIFICATIONS

POWER 300mA 240V Flicker Free Phase-Cut
DIMMING Phase-Cut Dimming

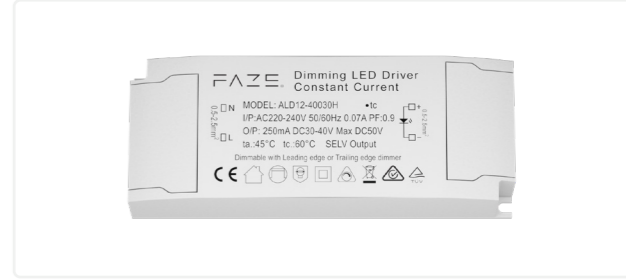
IN-DEPTH SPECIFICATIONS

RATED INPUT VOLTAGE AC 220-240V
FORWARD VOLTAGE RANGE 30-40V
MAX OUTPUT VOLTAGE (NO LOAD) 50V
FIXED OUTPUT CURRENT 300mA
MAX INPUT CURRENT 70mA
FULL LOAD EFFICIENCY 85%
MAX INPUT POWER 14W
MAX OUTPUT POWER 12W
POWER FACTOR > 0.90
OVERVOLTAGE PROTECTION YES
HIPOT TEST YES
MIN AMBIENT TEMP. TA -20°C
MAX AMBIENT TEMP. TA 45°C
MAX CASE TEMP. TC 65°C
STORAGE TEMP. 10-25°C
STROBOSCOPIC DUTY RADIO < 5%
THD FULL LOAD < 10%
THD MIN LOAD < 8%
CURRENT RIPPLE < 3%
SURGE PROTECTION 500V
DIMMING RANGE 10% - 100%
DESIGN LIFETIME 50,000hrs

COMPATIBLE LUMINAIRES

EDGE 110 G3 [10W] PRO ROUND G3 [10W]
 EDGE 100 G3 [10W] PRO SQUARE G3 [10W]
 EDGE MINI G3 [10W] PRO ROUND MINI G3 [10W]
 EDGE WALLWASHER [10W] PRO SQUARE MINI G3 [10W]
 LITE 108 [10W] PRO ADJUSTABLE [10W]

250mA Phase-Cut Driver



DIMENSIONS L 111mm W 42mm H 25mm

GENERAL SPECIFICATIONS

POWER 250mA 240V Flicker Free Phase-Cut
DIMMING Phase-Cut Dimming

IN-DEPTH SPECIFICATIONS

RATED INPUT VOLTAGE AC 220-240V
FORWARD VOLTAGE RANGE 30-40V
MAX OUTPUT VOLTAGE (NO LOAD) 50V
FIXED OUTPUT CURRENT 250mA
MAX INPUT CURRENT 70mA
FULL LOAD EFFICIENCY 85%
MAX INPUT POWER 12W
MAX OUTPUT POWER 10W
POWER FACTOR > 0.90
OVERVOLTAGE PROTECTION YES
HIPOT TEST YES
MIN AMBIENT TEMP. TA -20°C
MAX AMBIENT TEMP. TA 45°C
MAX CASE TEMP. TC 65°C
STORAGE TEMP. 10-25°C
STROBOSCOPIC DUTY RADIO < 5%
THD FULL LOAD < 10%
THD MIN LOAD < 8%
CURRENT RIPPLE < 3%
SURGE PROTECTION 500V
DIMMING RANGE 10% - 100%
DESIGN LIFETIME 50,000hrs

COMPATIBLE LUMINAIRES

EDGE 110 G3 [8W] PRO ROUND G3 [8W]
 EDGE 100 G3 [8W] PRO SQUARE G3 [8W]
 EDGE MINI G3 [8W] PRO ROUND MINI G3 [8W]
 EDGE WALLWASHER [8W] PRO SQUARE MINI G3 [8W]
 LITE 108 [8W] PRO ADJUSTABLE [8W]
 LITE MINI [8W]

Specifications

350/180mA Phase-Cut Driver



DIMENSIONS L 106mm W 39mm H 26mm

GENERAL SPECIFICATIONS

POWER 350-300-240-180mA 240V Flicker Free
DIMMING Phase-Cut Dimming

IN-DEPTH SPECIFICATIONS

RATED INPUT VOLTAGE AC 220-240V
FORWARD VOLTAGE RANGE 27-42V
MAX OUTPUT VOLTAGE (NO LOAD) 49V
FIXED OUTPUT CURRENT 350-300-240-180mA
MAX INPUT CURRENT 80mA
FULL LOAD EFFICIENCY 84%
MAX INPUT POWER 17.5W
MAX OUTPUT POWER 14.7W
POWER FACTOR > 0.95
OVERVOLTAGE PROTECTION 47VDC
HIPOT TEST 3750VAC
MIN AMBIENT TEMP. TA -20°C
MAX AMBIENT TEMP. TA 50°C
MAX CASE TEMP. TC 80°C
STORAGE TEMP. -20 – 75°C
STROBOSCOPIC DUTY RADIO < 5%
THD FULL LOAD < 12.5%
THD MIN LOAD < 9.7%
CURRENT RIPPLE > 0.1V peak to peak
SURGE PROTECTION 2000V
DIMMING RANGE 1% - 100%
DESIGN LIFETIME 50,000hrs

COMPATIBLE LUMINAIRES

EDGE XS [11W | 8W | 6W]
 EDGE XM [11W | 8W | 6W]



Quality is our guiding light in everything we do.

The FAZE Laboratory team collaborates with architects, designers and builders daily to incorporate light into projects. Our collaborative approach to lighting has helped inform many of our truly unique and innovative luminaires.

Learn more about us below, and see how we set ourselves apart in our approach to lighting.



Scan The QR Code to view our website, or head to fazelight.com



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Edition APR.26
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