



QUICK GUIDE

TO CHOOSING
THE RIGHT DRIVERS

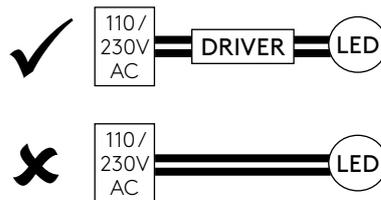
FOR MORE DETAIL ON SPECIFICATION
AND INSTALLATION, SEE OUR
[ADVANCED GUIDE >](#)

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DO I NEED A DRIVER?

Only products with integrated LED require drivers

If your integrated LED light is marked or specified as **Class III**, or displays this symbol , **it must not be connected directly to the mains voltage supply** - this will cause permanent damage to the LED, requiring replacement of the entire LED light fitting. A compatible LED driver **must** be used between the switched mains supply and the LED light.



HOW DO I KNOW WHAT DRIVER TO USE?

On our website, we provide an easy-to-use tool to calculate which LED drivers are compatible with our Class III LED lights. This tool can be found on each Class III LED product page. Simply enter the quantity of LED lights and select the type of dimming.

[CLICK HERE TO VIEW THE DRIVER CALCULATOR >](#)

Astro offer LED drivers for use with non-dimming and dimming circuits. The Driver Calculator will list all compatible LED drivers stocked by Astro with the quantity of each required.

Driver calculator

Product qty

Dimming options

TYPES OF DIMMERS

1. **Leading or trailing edge dimming** (also called **phase-cut**, **TRIAC** or **mains**) is the most common and easiest to install dimming method. There are two types of mains dimming, leading edge and trailing edge. Trailing edge offers superior performance with smoother control and silent running when in operation. Take care to ensure that the dimmer switch is suitable for LED lights by checking with manufacturer and/or the driver calculator.
2. **1-10V dimming** (also called **0-10V**) is an analogue dimming method which requires both mains power and control or signal wires between switch and driver. This type of driver may not be suitable for retro fit, please check with your electrician.
3. **DALI dimming** is a digital programmable dimming method, usually used in large commercial properties. It requires specialist installation and commissioning. DALI also requires both mains power and control or signal wires between switch and driver.

For specialist dimming systems such as **Lutron**, **Rako** or **iLight**, contact the manufacturer for their recommendation on their type of LED driver and confirmation of dimming type.

If you are unsure about which type of dimming you require or already have, consult a qualified electrician or the manufacturer of the dimmer switch or system.

ASTRO RECOMMENDS

- ✓ Consult a qualified electrician
- ✓ Consider whether dimming is required at all, as this can add to the cost and complexity of the installation
- ✓ Refer to our product datasheets and instructions, available for download on our website
- ✓ Check the installation instructions of the switch or dimming system prior to specifying the LED product and driver if working with existing wiring
- ✓ Use our Driver Calculator to select appropriate LED drivers for your product selection and dimming needs
- ✓ Ensure that the dimmer and the dimming LED driver are compatible
- ✓ Ensure LED lights connected to the driver with power are turned off. Connection while the power is on is known as hot-wiring and is likely to permanently damage the LED
- ✓ Bench-test the intended circuit prior to installation so that any issues can be more easily identified and rectified
- ✗ Don't attempt to install electrical products unless qualified to do so
- ✗ Don't mix products of different types, e.g. halogen, fluorescent, LED, on the same switched circuit
- ✗ Don't specify LED drivers other than those recommended by our driver calculator unless you fully understand the specifications and compatibility requirements of each part of the lighting circuit