

## Cabinet LED Drivers Questions & Answers

### Q) What does L N mean, is this the mains power input?

A) L N means Live / Neutral. The L/N is the "Mains Power" from 230-240V supply.

### Q) What does the +/- mean as illustrated on the printing of the product?

A) This means positive (+) and negative (-) and is associated with the +/- of the LED product to be connected. Typically a red / brown cable for positive (+) and a blue / black cable for negative (-)

NOTE: Please check the voltage of the Cabinet LED driver and associated LED product before connection occurs. The PowerUP Cabinet LED drivers are typically supplied in either 24V or 12V and are compatible with their LED counterparts. You should also check the max wattage draw on both the driver and LED product, allowing for a 10% buffer margin to ensure peace of mind and longevity of solution.

### Q) How many separate LED components can I connect to a PowerUP LED cabinet driver?

A) Typically our LED cabinet display power supplies come with 6 micro connectors allowing for 6 individual components to be connected. Please check the maximum wattage on the PSU before connecting and divide accordingly allowing a 10% (100W PSU - 10% = 90W) buffer for an added margin of safety. See below for more details.

### Q) What is the warranty on this product?

A) We offer a 3 year back to base guarantee on this product.

### Q) What is the purpose of your PowerUP cabinet LED driver, where can I use it?

A) Our range of cabinet display LED drivers are ideal for installation in many applications including kitchen cabinets, walk-in wardrobes, book shelves, retail displays, feature lighting, edge lighting, garden bars and many other environments within residential, commercial retail, entertainment, architectural, hospitality, leisure and bespoke signage for window displays.

### Q) How easy is this product to setup?

A) Simply plug the mains IEC into the wall and connect to your PowerUP cabinet LED driver. Now you can connect your LED products including 12V/24V LED tape lights, marker/pointer LEDs, hardback strip lights to any of the 6 outputs.

### Q) What's the best way of mounting your PowerUP cabinet LED driver?

A) Each of our cabinet LED drivers comes with two screw mount holes for simple screw mount application.

Alternatively if the cabinet driver is mounted grounded (resting on a surface), vertically or hanging under a lip of a surface (top down) a strong adhesive 3M backing pad could

be used. We don't recommend this for vertical / down hanging applications unless a strong bonded solution is used.

**Q) What's the best way to prepare application of this LED cabinet driver and associated LED components?**

**A)** Before you start any LED lighting projects it's a great idea to determine a few key points.

**1)** Are the components I've selected compatible with one another? I.e does my Cabinet LED driver have the same voltage as the LED product / strip light components I've ordered?

A 24V cabinet LED driver with a 24V LED light or single colour / seamless COB LED tape light is **correct**.

A 12V cabinet LED driver with 12V LED market light or single colour / seamless COB LED tape light is **correct**.

A 24V cabinet driver matched with a 12V LED light / tape light will NOT work as it is incompatible and therefore **incorrect**.

**2)** Have I checked the total wattages of the driver and LED products, ensuring they will work together?

Have I checked the maximum output wattage of the LED cabinet driver, what is it?

Have I checked the maximum output wattage of each LED component from 1-6 items and what is the total wattage of each?

What is the total wattage of the LED lights / strip components and is the total wattage of the cabinet driver enough, building in a 10% window of safety?

**Example:** if you select a 60W driver and have x5 10W/M LED tape strips this would be 50W and would be within the margin of safety.  $60W - 10\% = 54W$ .  $5 \times 10W = 50W$  which is within the window of safety. **Correct**.

If you select a 60W driver and have x6 10W/M LED tape strips this would be 60W exactly and would not allow any room for a margin of safety. Therefore it would be **incorrect**.

**3)** Do I have a main supply close to the area of integration?

What is the distance from mains supply to the cabinet LED driver?

What are distances from the LED cabinet display driver to the first, last and other LED components?

What is the distance for each individual LED component from driver output to start of LED component?

Are there any obstacles, screws or sharp metal edges that could affect the LED component or slice the cable tails? If so, what can I do to fix this?

### **Q) How do I mount your LED tape lights?**

A) Our flexible LED tape strips come with a 3M backing tape which can be peeled back and stuck directly to a surface. It's best practise to mount single colour LED tape lights within an aluminium profile which offers a more completed, diffused look. The aluminium extrusion also acts as a heatsink which helps extend the life of the LED tape.

Despite our full range of LED tapes using between 2-3 ounce copper PCBs for thermal management, it's best that they get mounted to further metal plate / LED profile.

Should you choose seamless COB LED tape lights which are already seamlessly diffused, giving the appearance of dot free "no dotting" look then a simple aluminium metal plate is an ideal heat sink.

**NOTE:** LED tape lights can be mounted directly to surfaces if the brightness is set to less than 30% as a further profile/metal plate acts to dissipate heat. A warning however, it's always best practise to mount LED tape lights within a channel or atop a smoothed over metal aluminium plate (no serrated edges).

When considering avoiding the use of a further LED channel or plated heat sink you can take the following into consideration.

**1)** Professional LED tapes that are well engineered with high-grade LEDs can be dimmed to a lower level. Due to the nature and conversion efficiencies from heat to light within the LED chip itself, it's possible to mount directly to the surface. So long as the tape is dimmed to a low level < 30% brightness and there are no knicks that could disrupt the FCB (flexible circuit board) also known as PCS (Printed circuit strip).

**2)** RGB, RGBW & RGBCW colour changing LED tapes as well as Digital / Addressable LED strip lights

Most professional LED suppliers constantly push a "Brighter is better" mentality when it comes to LED tape lights and in many application cases brightness is certainly an important factor. But here's another perspective we at Uprise would like you to

consider, that's the MVB or "Minimal Viable Brightness" for an overall solution.

Does your LED solution really need to be set to 100% brightness? What's the bare minimum you can get away with without the overall visual effect looking poor or unfitting? Consider this, whatever strip you choose having the strip working at 100% at all times takes energy, it also increases heat, reduces product life and in extremely rare cases increases risk of damage if due care hasn't been taken during installation. Not only that but if a strip is too bright when it doesn't need to be it could affect people's eyes, especially the elderly.

Instead when designing your lighting scheme, especially for "aesthetic" or designer style LED integrations why not think about how you could lower the brightness whilst still making an impact?

The benefit? More energy saved, longer life for both driver and LED components, less heat, less risk and an easier on the eye aesthetic. So long as the illumination does its job, what's the problem?

**Solution:** There are two ways of getting an MVB (Minimal viable brightness) result, one is choose a lower brightness LED tape strip from the get go and two is dimming an LED strip light down to lower levels with a dimmable driver/PSU.

### **Q) What is the best way to hide/mount LED source / LED tape light cable tails after I've finished installing?**

- A) The best way to organise loose cables and keep them tidy is with a self adhesive or nail style cable clip. If you are mounting to a wooden shelf or cabinet unit please check depth before hammering the nail part of the clip. This is to avoid any sharp nail points sticking out the other end of the wood.

For self adhesive clips prepare the mount surface by first wiping it clean, removing any dust or particles. This can be done with a lint-free cloth that's been mildly soaked in soapy water to properly clean the surface. Afterwards rinse and immediately dry with a clean, soft cloth.

We recommend first measuring up distances from cable tail feed-in to each component. What does feed-in mean? This is where the start of the cable tail meets your LED component / LED tape light. You'll want to first measure out each feed-in point back to the location you intend to place your PowerUP cabinet LED driver. Once you measured After install integration,

**Q) Can this be turned on via hand waving motion?**

A) Yes there is an motion sensor accessory option that allows turning the driver on / off by waving your hand. Your hand needs to be within 10cm (100mm). Simply wave once to turn on and wave again to turn off.

**Q) If I choose the hand waving motion sensor, what distance should my hand motion be?**

A) 10cm (100mm) or 0.4 inches away from the sensor.

**Q) I'm looking for a luxury LED lighting solution, is this it?**

A) Uprise uses the highest quality components, most stylish aesthetics and simplest install methods offering a luxury light solution you'll take note of. We're constantly reinventing the way things should be done, providing forward thinking, leading solutions that are future proofed. Our revolutionary approach to providing an ultra-slim, seamless LED lighting solution sets us apart from the competitors. We achieve this by combining ultra thin cabinet LED drivers with groundbreaking seamless COB LED tape lights, the result? A beautiful, homogenous LED solution that's designed to delight.

**Q) I have an area that needs multiple LED lights, is this product suitable?**

A) Our range of 30W / 60W / 100W cabinet LED drivers are perfectly suited upto 6 individual LED products or flexible LED tape light lengths. You can connect just a single LED component/strip or upto 6. You just need to work out the power draw on each component or the wattage per meter for LED strip lights.

**Q) How do I install this cabinet LED power supply?**

A) Simply mount the LED driver via the 2 screw mounts.

**Q) Is there any danger of this product catching fire?**

A) This product has been manufactured to a high quality standard with CE, RoHs and UL certification.

**Q) Ok I'd like to buy, is this product in stock?**

A) Yes this product is in stock for next day delivery. You can also check out our range of seamless cob and single colour LED tape lights to create your ideal solution. Uprise aims to hold stock of all products as we want to offer super fast, next day solution delivery. As a new company we're still finding our feet so some products are not stocked but in time and as processes improve so will our next day solution capability.

**Q) Is this product value for money, why should I buy from Uprise?**

A) This super thin, quality engineered cabinet LED driver is excellent value for money. Why? Because buying from Uprise saves you your most valuable resource, time. You're investing in a luxury light setup but more importantly you're investing in time saved from selection to project satisfaction. It's easy to buy, it's simple to set up due to it's plug and play nature and it's multi-outputs, it allows utmost adaptability for your needs and it's built to last. You get a long lasting LED lighting solution in record time. That's project success by any metric.

**Q) What is the returns process for this item should there be a fault?**

A) Simply send the item back in it's original packaging and we will aim to replace the product asap. Uprise reserves the right to check the product to determine cause of fault before sending a new replacement cabinet display driver out.