

# Konnekt Hive

## Why specify Konnekt Hive

Konnekt Hive provides a low-voltage way of discreetly delivering power into shelving systems and product displays. Konnekt Hive is engineered to operate using powerful neodymium magnets instead of wires, cables and connectors to create a solution that can be fixed directly onto suitable surfaces, thereby enabling users to install and reconfigure their displays with speed and ease.

## Key features



Magnetic Track / connections



Custom design service



Cost-effective installation



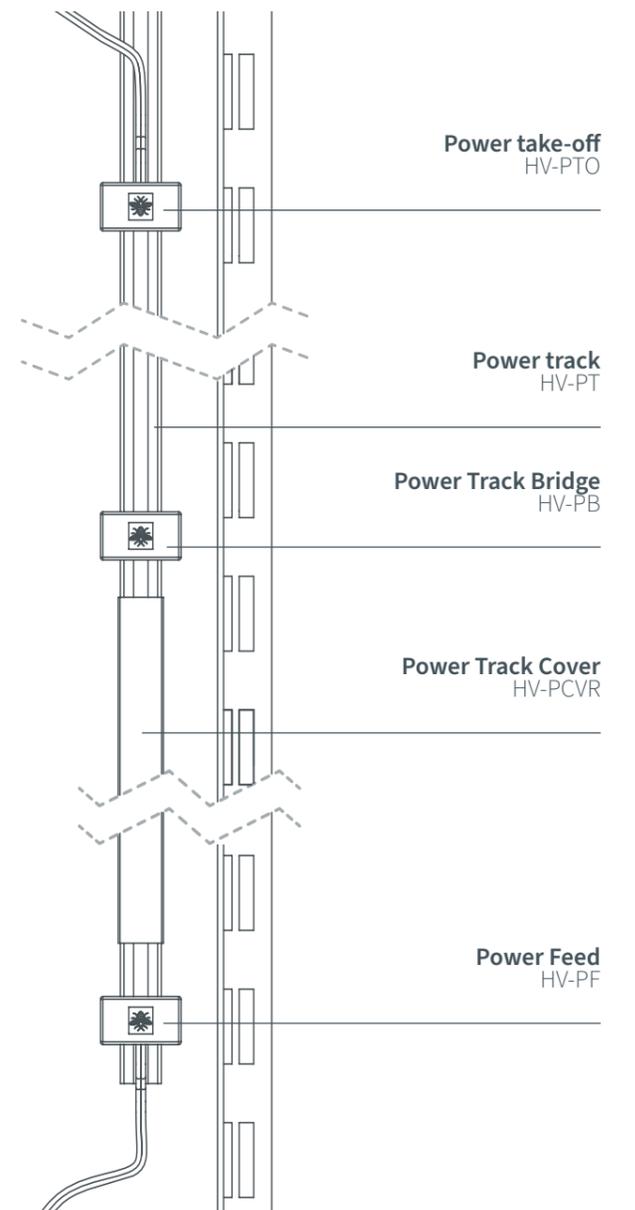
Quick turnaround times

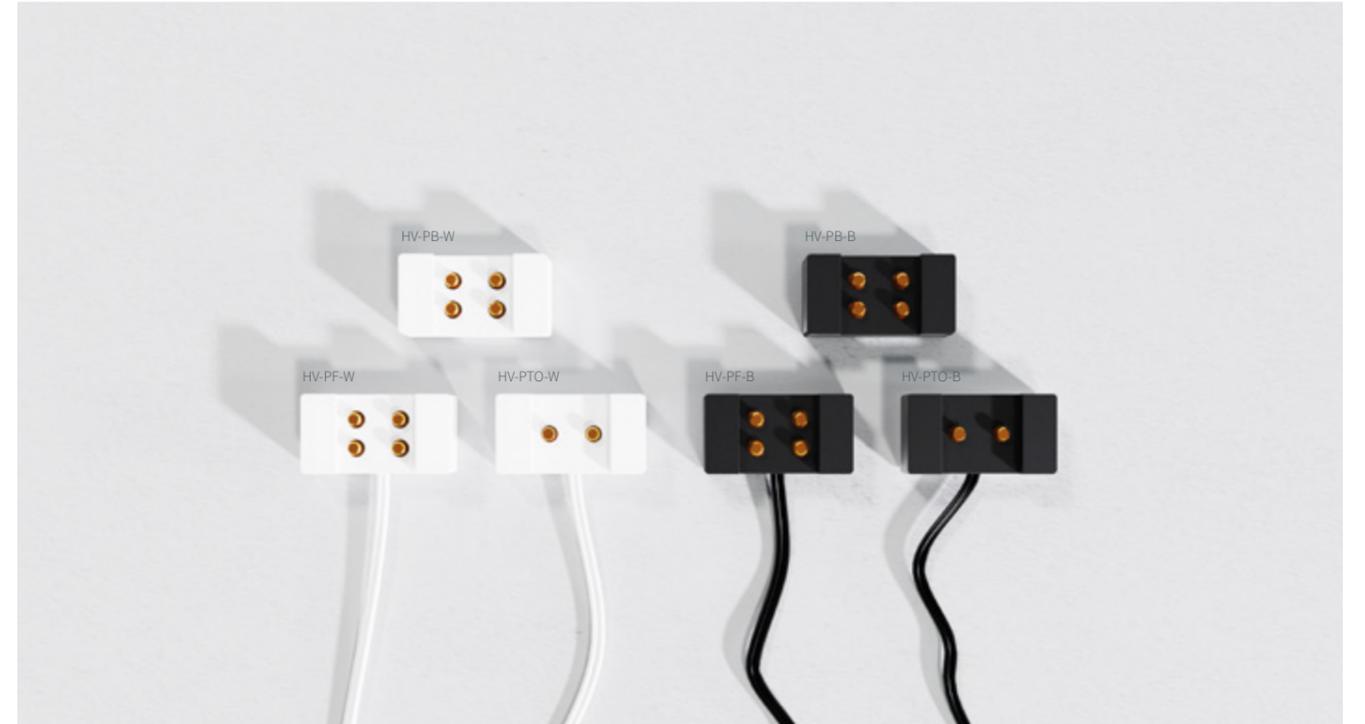
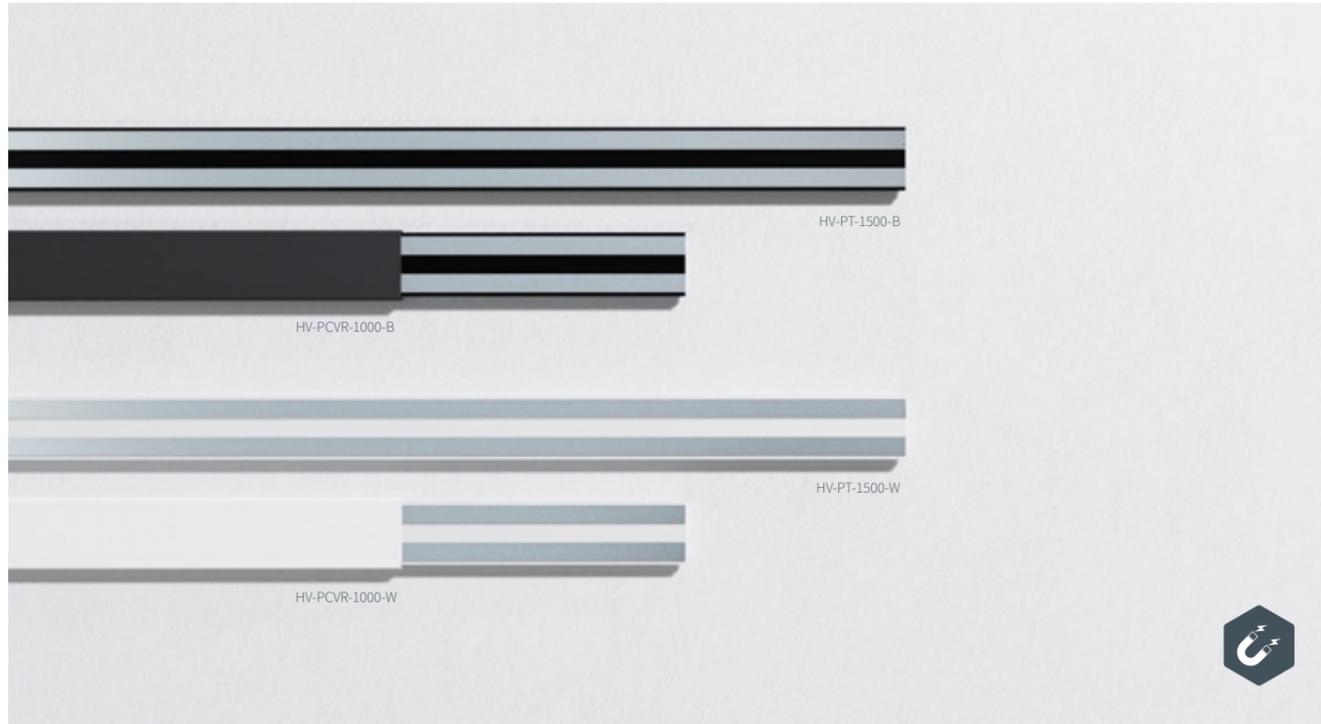


Retro Fit



Reconfigurable



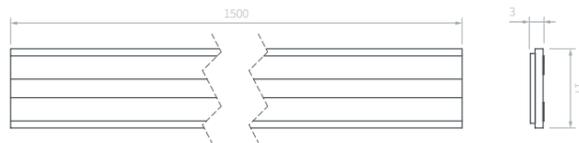


# Power track

## Hive power track - HV-PT

Available in black and white

Konnekt Hive features a slim-line power track with an 8-amp rating, which attaches magnetically to suitable surfaces such as steel back panels, sections, and support brackets.



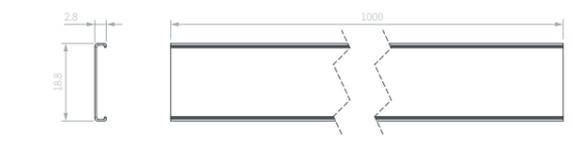
Rated Voltage	Rated Current (Track)	Max Continuous Track Length (mm)
12/24V	8AMP	1500

Power track order ref.	Colour
HV-PT-1500-B	Black
HV-PT-1500-W	White

## Hive power track cover - HV-PCR

Available in black and white

A cover fixes securely onto the slim-line power track in order to insulate the positively and negatively charged elements against shortage. Its design means it is easy to cut according to client-specific measurements and clip into place as required.



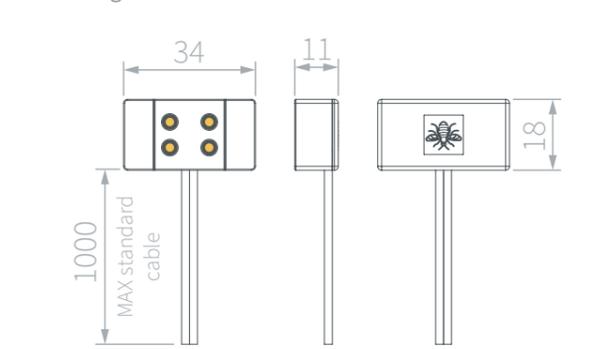
Power track cover order ref.	Track cover length (mm)	Colour
HV-PCR-1000-B	1000	Black
HV-PCR-1000-W	1000	White

# Connectors

## Hive power feed - HV-PF

Available in black and white

A power feed connector with a rating of 8 amps is attached electrically to the low voltage track using specially-designed sprung pogo pin connectors. By using small yet impressively strong neo magnets, the power feed connector is held securely in alignment with the track's mounting surface.

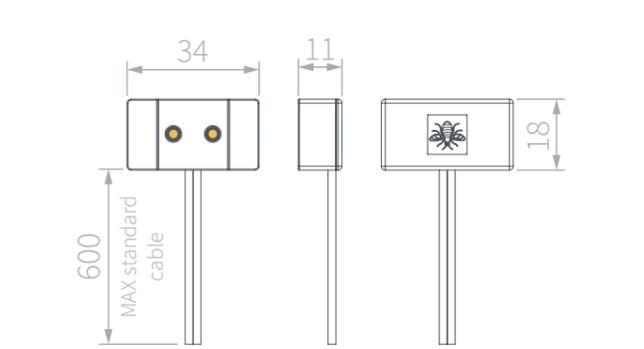


Powerfeed Ref.	Connector rating	Cable length (mm)	Colour
HV-PF-B	8AMP	1000	Black
HV-PF-W	8AMP	1000	White

## Hive power take off - HV-PTO

Available in black and white

A power take-off connector with a rating of 3 amps is attached electrically to the low voltage track using sprung pogo pin connectors. By using small yet impressively strong neo magnets, the power take-off connector is held securely in alignment with the track's mounting surface.



Power take off Ref.	Connector Rating	Cable Length (mm)	Colour
HV-PTO-B	2AMP	1000	Black
HV-PTO-W	2AMP	1000	White

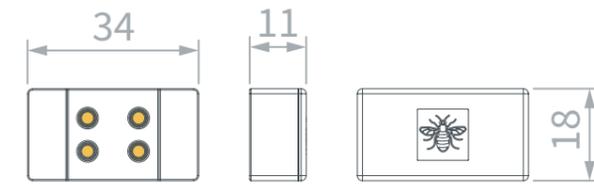


# Power track bridge

## Hive power track bridge - HV-PB

Available in black and white

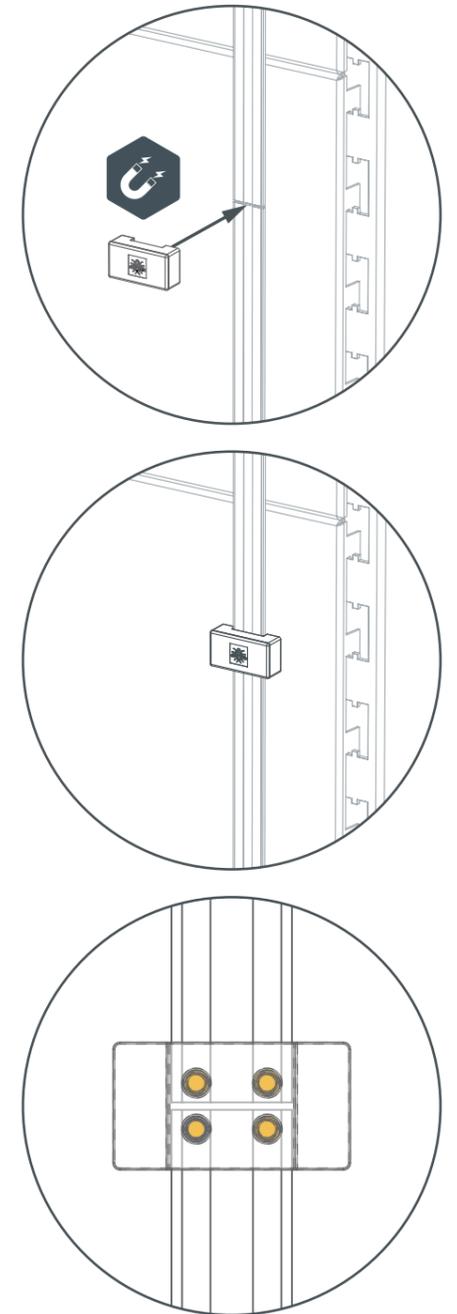
Konnekt Hive uses a specially - engineered power bridge with 3-amp rating, to connect two tracks together end-to-end. The bridge attaches to both tracks electrically using sprung pogo pin connectors and utilises neo magnets to ensure that it is held securely in alignment with the track's mounting surface.



Power track bridge order ref.	Connector rating	Colour
HV-PB-B	2AMP	Black
HV-PB-W	2AMP	White

## How it works

For extending power tracks - the power track bridge can be fitted over joints in tracks for continuous power supply, while still being quick and easy to install.

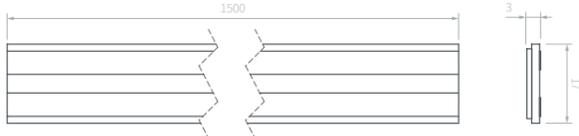




# Hive installation

## Basic equipment required

**A - Power track**  
HV-PT



**B - Power feed / power supply**  
HV-PF

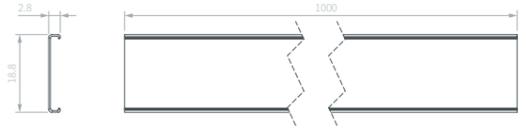


**C - Power take-off / luminaire**  
HV-PTO



## Optional equipment

**D - Power track cover**  
HV-PCVR

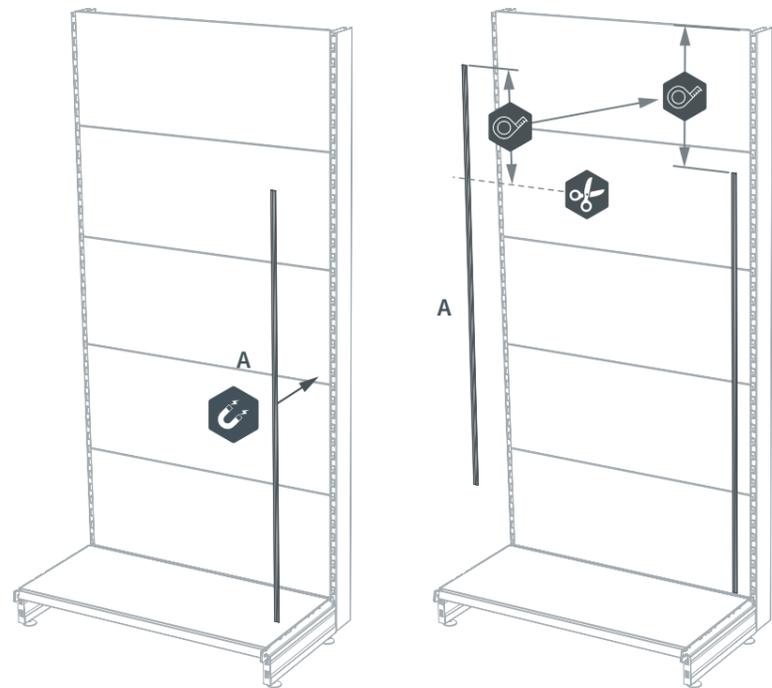


**E - Power track bridge**  
HV-PB



### 1. Power track installation (A)

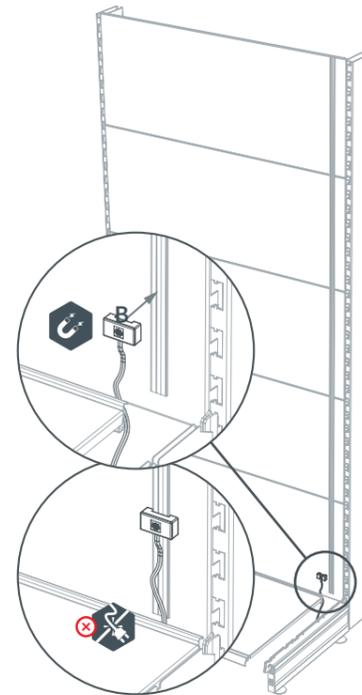
Install power track to magnetic surface. Use multiple sections of track cut to length to achieve required track length.



### 2. Power supply connection

Position power supply in suitable location (i.e. below base shelf on racking). Ensure connector can reach power track.

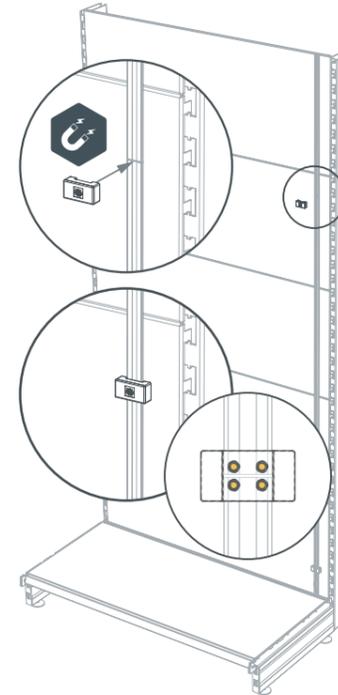
Magnetise connector to back panel over power track. Ensure connector is fully engaged over track.



### 3. Power track bridging

\*Any splits in power track use a power track bridge to reconnect the power track sections.

Ensure that connector is fully engaged and is equally spaced over the 2 sections of track.

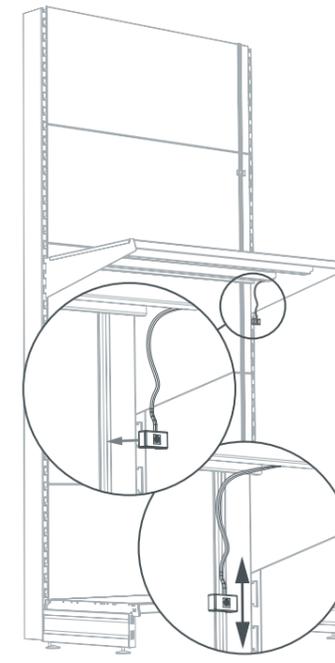


### 4. Luminaire / powered components

Install luminaires in required positions, using preferred fixing method.

(If magnetic shelving we recommend magnetic tape fixing method for flexibility.)

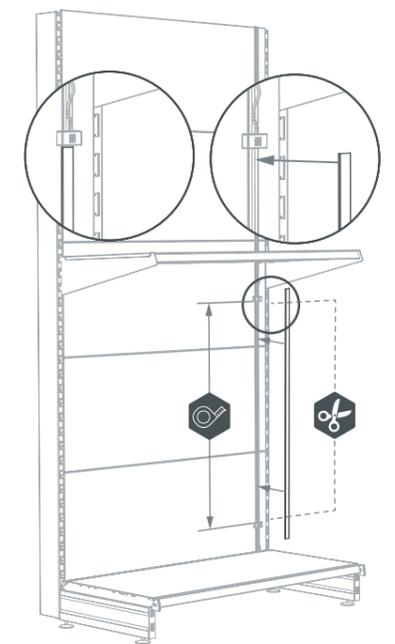
Once luminaires are positioned, install power take off connector over power track.



### 5. Power track cover

Once you are happy with luminaire positions you can use the power track cover to conceal exposed sections of track.

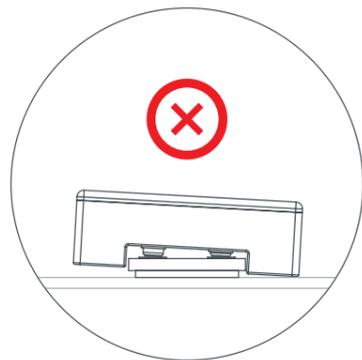
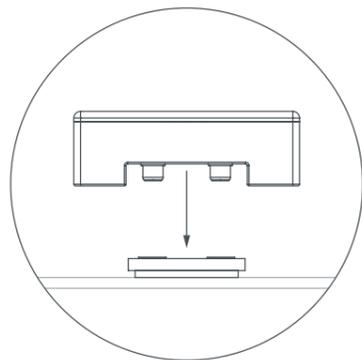
Measure gaps between connectors and cut cover to suit, then simply clip over the exposed section of track. Repeat for all sections.



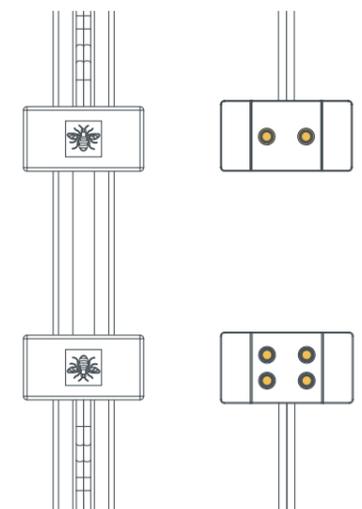
### 6. Trouble shooting

Connect mains feed everything should now illuminate. If no illumination check the following:

- Check all mains connectors. (Turn off main first)
- Check all Hive connectors are seated on power track properly.



- Check connectors are in correct orientation.
- Power feed and Power Take Off must be in opposite orientation - as shown.



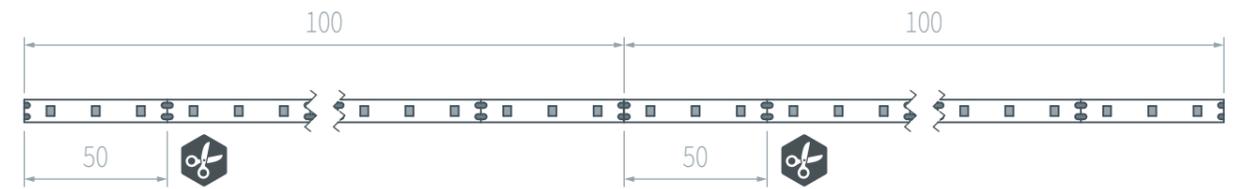
If problems continue please contact Unibox directly by emailing [sales@unibox.co.uk](mailto:sales@unibox.co.uk) or phoning 0161 655 2100.



# Choosing your power supply

Before calculating driver requirements for Konnekt, first consider the potential wattage requirements per upright.

For example, a luminaire 24v 9.6w/m LED tape(which has a wattage requirement of 9.6 per meter). The power requirements for this tape can be calculated using the following equation:



**WATTS x LENGTH = TOTAL POWER**  
 $9.6w \times 2m = 19.2W$

Please get in touch for our range of flexible LED modules that are available as standard and for their respective wattage per meter (w/m). [sales@unibox.co.uk](mailto:sales@unibox.co.uk)

## Power Supplies & Wiring

For internal use only.

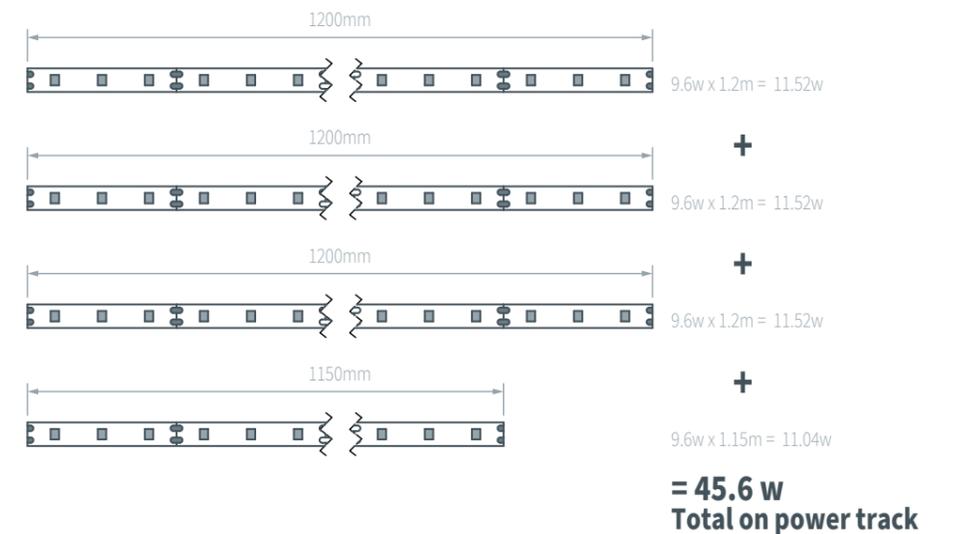


Driver	Voltage (V)	Power
KD-12V-30	12	30
KD-12V-60	12	60
KD-12V-90	12	90
KD-24V-30	24	30
KD-24V-60	24	60
KD-24V-90	24	90
KD-24V-120	24	120
KD-24V-150	24	150
KD-24V-180	24	150

### Power loading calculation example

#### Please note

It is vital, to always select a driver that is a higher wattage than the total amount required by the track. For example, a track using 48w would need a driver of 60w or higher (see diagram). Selecting a driver that does not meet the wattage requirements of the track will result in driver failure.



The equation above calculates the total amount of power (in watts) that will be required by each shelf luminaire in a 2000m bay. To calculate the total amount of power required from the power track, repeat this process for each powered item on the bay and add all of the values together.



# Powering options

## Lightbars

Slimline LED luminaires for retail and exhibition display systems, designed with effective illumination and ease of installation in mind.

Linear luminaires are integral to Unibox's retail and exhibition display systems, providing the integrated lighting that illuminates products and display stands.

Designed in a range of slimline aluminium profiles specifically made to effectively dissipate heat, Unibox linear luminaires can be customised to suit the product on display, from colour temperature to secondary optics to manipulate the light output.

## Light boxes

Combining specially created aluminium profiles and range of graphic options - including removable tension fabric graphics and Duratrans quality photographic prints - our edge-lit, side-lit and backlit frames are designed to deliver maximum impact.

Our illuminated displays & graphics can be single or double-sided, freestanding, wall mounted, integrated, or ceiling hung, and are manufactured to custom dimensions and shapes. Helping to maintain brand consistency, our illuminated graphics can also be powder coated, plated, and custom-finished (including wood/stone/graphic finishes directly to the aluminium - contact us for more info) to your precise requirements. With in-house technical design and manufacturing facilities, we're the UK's leading supplier of illuminated graphics.

Key Design Considerations - For Lightboxes Powered by Konnekt

- Size limitations 150w max. (get in touch for more details)
- Various depth frames.
- 24v & 12v Options (Voltage must match power supply.)

## LED signage

Unibox are specialists in LED lighting, which when combined with our expertise in graphic display, creates some truly eye-catching LED signage solutions. Utilising our in-house manufacturing skills, we provide two different signage options, that are designed to perfectly match your (or your clients) branding.

Neonist is our modern alternative to neon, created using LED illumination and advanced manufacturing techniques which result in high impact signs without the complications (or risks!) that neon is infamous for.

Kontour, our latest LED signage innovation, utilises laser-cut acrylic made custom to your design or font, mounted within almost any housing or display. Kontour benefits from advanced LED illumination, with a custom-coloured edge lit panel.

## Light panels

Light panels are core to Unibox's lighting and graphic display solutions, providing a slimline method of illumination with consistent lighting that can be combined with Unibox LED Lightboxes and multiple other products.

A bespoke, high-quality LED light engine illuminates a dot-matrix patterned light guide plate, produced on our in-house laser-etching machine. The pattern, algorithmically calculated by panel size, creates an even distribution of light across the panel.

## Digital screens

Digital screens can be incorporated into shelving systems using power delivery systems to create a visually dynamic displays that are optimised to capture the attention of passers-by. They enable branded messages, product information and video content to be shown directly alongside physical merchandise without requiring complex networks of unsightly cables.

## 5V charging

Voltage converters can be connected to power delivery systems to facilitate the charging of a wide range of electrical devices such as phones and tablets. Integrating charging capabilities directly into retail display units means there is no need for unsightly extension cables or additional mains access points.

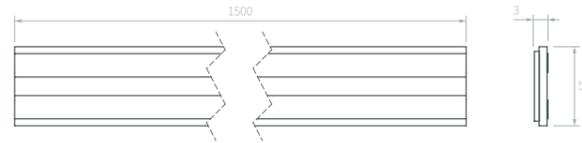
For more information or literature about powering options.

**Please contact Unibox directly by emailing [sales@unibox.co.uk](mailto:sales@unibox.co.uk) or phoning 0161 655 2100).**

# How to order

## Power track

**Power track**  
HV-PT

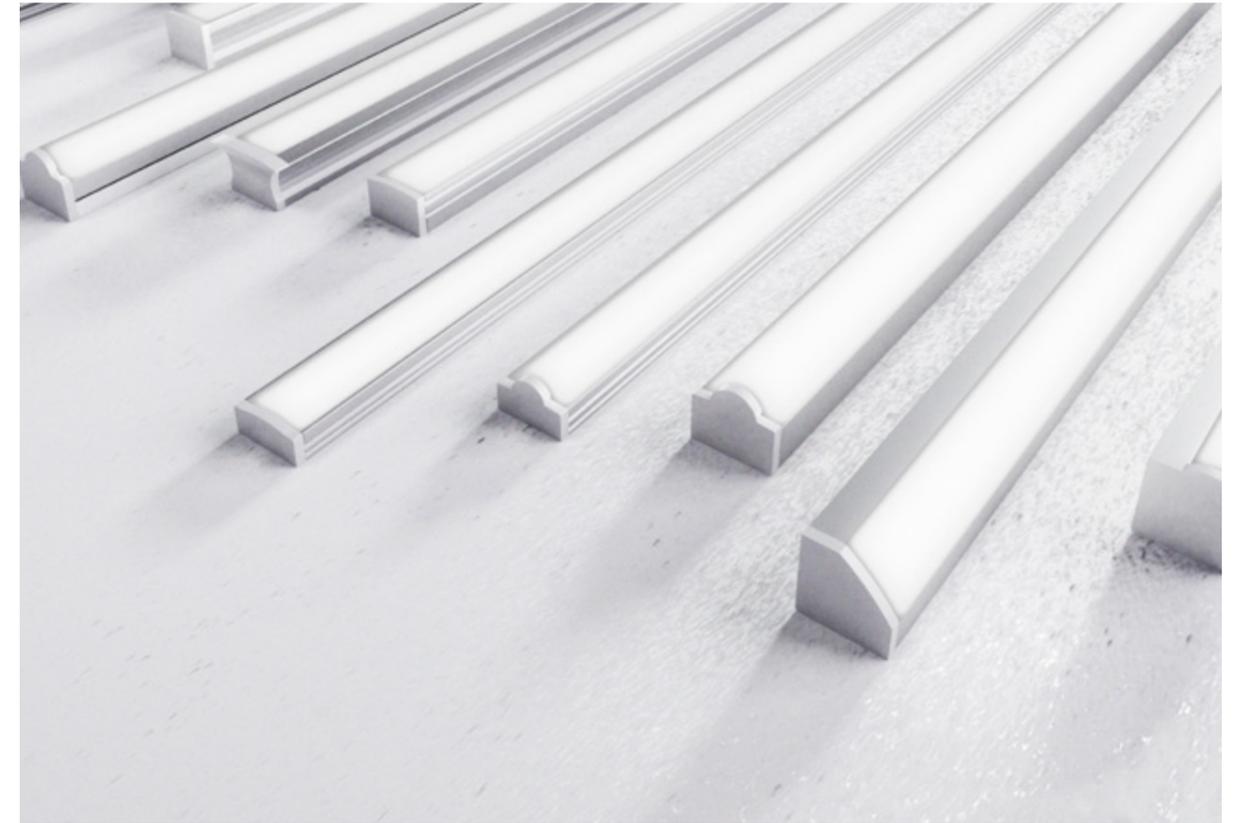


Power Track Ref.	Track Length (mm)	Colour
HV-PT-1500-B	1500	Black
HV-PT-1500-W	1500	White

**Power track cover**  
HV-PCVR



Power Track Ref.	Cover Length (mm)	Colour
HV-PCVR-1000-B	1000	Black
HV-PCVR-1000-W	1000	White



## Luminaires

Choose from profile size, shape or function from our light bar guide with diffuser type (clear, semi, fully frosted or coloured lenses). Our aluminium profiles are anodized satin silver with a full range of RAL colours available on request. We have designed & manufactured a range

of slimline aluminium profiles specifically made to effectively dissipate heat. There is a selection of standard fixing elements, end caps and diffusers available for all solutions.

Please get in touch with a member of our sales team for our lightbar product guide by [emailing sales@unibox.co.uk](mailto:sales@unibox.co.uk) or **phoning 0161 655 2100**.



<b>Example:</b>	Light bar ref. UA00000	/	Diffuser type SF	/	Connector type HV-PTO	/	Connector colour Black (B) White (W) B	/	LED code LT-4000-14.4-24	/	Length (mm) inc. end caps 1215
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**UA00000/SF/HV-PF/B/LT-4000-14.4-24/1215**

For light bar and LED references please see our light bar product guide.  
For more details on fixing methods, RAL colours and alternative light engines please get in touch.

# Power supplies

To specify the correct power supply for your project please ensure your driver wattage is greater than the wattage requirement of the powered equipment. **If unsure please get in touch sales@unibox.co.uk.**



Driver	Voltage (V)	Power
KD-12V-30	12	30
KD-12V-60	12	60
KD-12V-90	12	90
KD-24V-30	24	30
KD-24V-60	24	60
KD-24V-90	24	90
KD-24V-120	24	120
KD-24V-150	24	150
KD-24V-180	24	150

<b>Example:</b>	Driver ref. <b>KD-24V-150</b>	/	Connector <b>HV-PF</b>	/	Connector colour Black (B) White (W) <b>B</b>	/	Cable length <b>500</b>
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**KD-24V-150/HV-PF/B/500**

## Get In Touch

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www.unibox.co.uk

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