

Electricians Choice - Pro Power Transformers

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60W Transformer

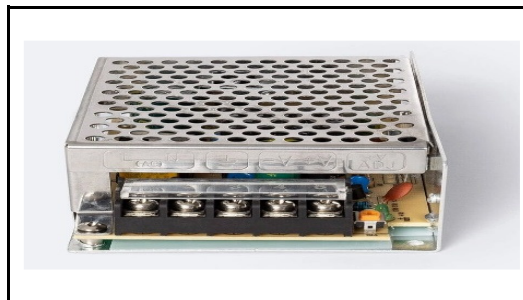
12V DC 60W 5A Power Transformer

120W Transformer

12V DC 120W 10A Power Transformer

200W Transformer

12V DC 200W 16.7A Power Transformer



Terminals:

Each Power Transformer has 5x Terminals

Inputs - Live + Neutral + Earth

Outputs - Live + Negative

Step 1 - Calculate the power length to mains / plug

Step 2 - Add your 3x Inputs

Step 3 - Calculate the length to '-' suspended cable

Step 4 - Add '-' to Transformer '-'

Step 5 - Add '-' to 1x Suspended Cable

Step 6 - Calculate the length to '+' suspended cable

Step 7 - Add '-' to Transformer '+'

Step 8 - Add '+' to 1x Other Suspended Cable

Step 9 - Turn on the Transformer

Step 10 - All LED's will illuminate

When to utilise the 60W - 120W - 200W Transformers?

- 1 Using 4x A3 Landscape LED's on 1x Suspended Drop - as an example
- 2 The above 'Terminal' steps will reveal how to connect 1x Drop of A3 Landscape Pockets, with 4x LEDs
- 3 A3 Landscape LEDs, demand 10W of power each (4x LED's x 10 = 40W)
- 4 Now you will require a generous 'Buffer' to avoid transformer overheating etc
- 5 This 'Buffer' could be the remaining 20W of the 60W transformer
- 6 So, you need to order = 1x 60W Transformer

- 1 Lets assume you are wanting to add a total of 3x Drops of A3 Landscape LEDs in your same 1x Window Area
- 2 This would equate to 3x 4 LED's = 120W's of wanted power for all the LED's
- 3 So, you will need to order = 1x 200W Transformer

- 1 Lets assume you are wanting to add a total of 4x Drops of A3 Landscape LEDs in your same 1x Window Area
- 2 This would equate to 4x 4 LED's = 160W's of wanted power for all the LED's
- 3 So, you will need to order = 1x 200W Transformer

The moral is - **ALWAYS** calculate an excess power of at least 20% to avoid Transformer over heating

The moral is - The higher the transformer power utilised, the less transformer UK Plugs utilised

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Possible LED - Sizes and Power Demand (each)

A1 LED - (each LED demands) = 25W

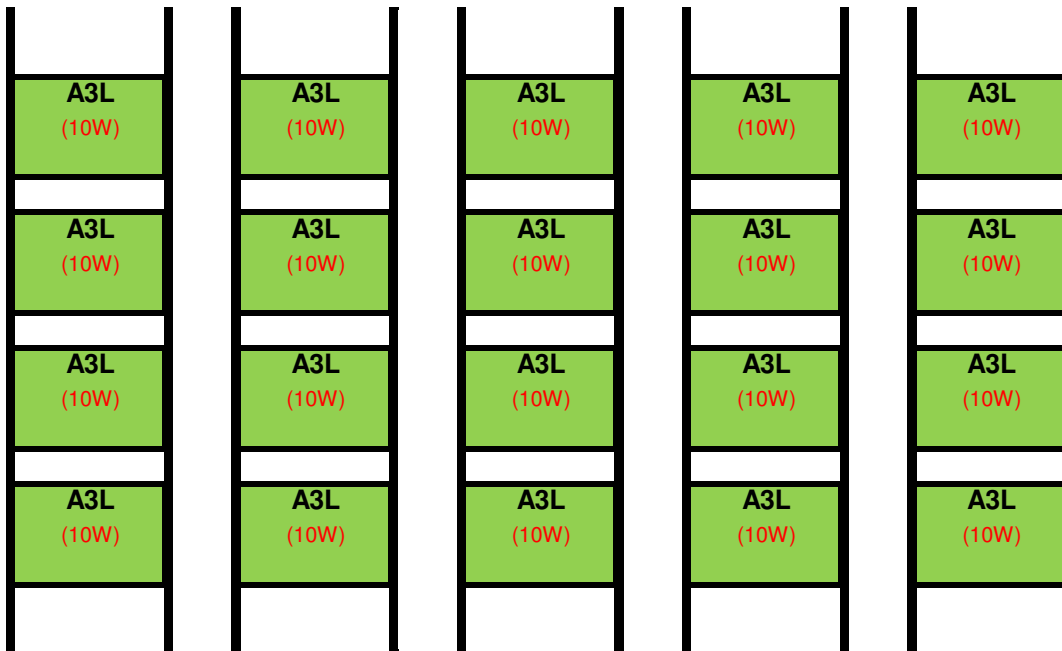
A2 LED - (each LED demands) = 15W

A3 LED - (each LED demands) = 10W

A4 LED - (each LED demands) = 8W

Possible LED - Sizes and Power Demand (each)

Below image reveals 5x Drops of A3 Landscape LEDs - with 4x LEDs on each drop



1x Drop (as 1st Image):

As each A3 Landscape LED demands 10W of power - 1x drop equals = 40W

You will need to order our = **60W Transformer**

2x Drops (as 1st + 2nd Image):

As each A3 Landscape LED demands 10W of power - 2x drops equals = 80W

You will need to order our = **120W Transformer**

3x Drops (as 1st + 2nd + 3rd Image):

As each A3 Landscape LED demands 10W of power - 3x drops equals = 120W

You will need to order our = **200W Transformer**

4x Drops (as 1st + 2nd + 3rd + 4th Image):

As each A3 Landscape LED demands 10W of power - 4x drops equals = 160W

You will need to order our = **200W Transformer**

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Understanding LED Panels to power connections:

LED Panels normally have a "+" on the left-hand gripper

Hence, as the power "+" is on the left cable, ensure the ALL the LEDs with the "+" are on the left cable

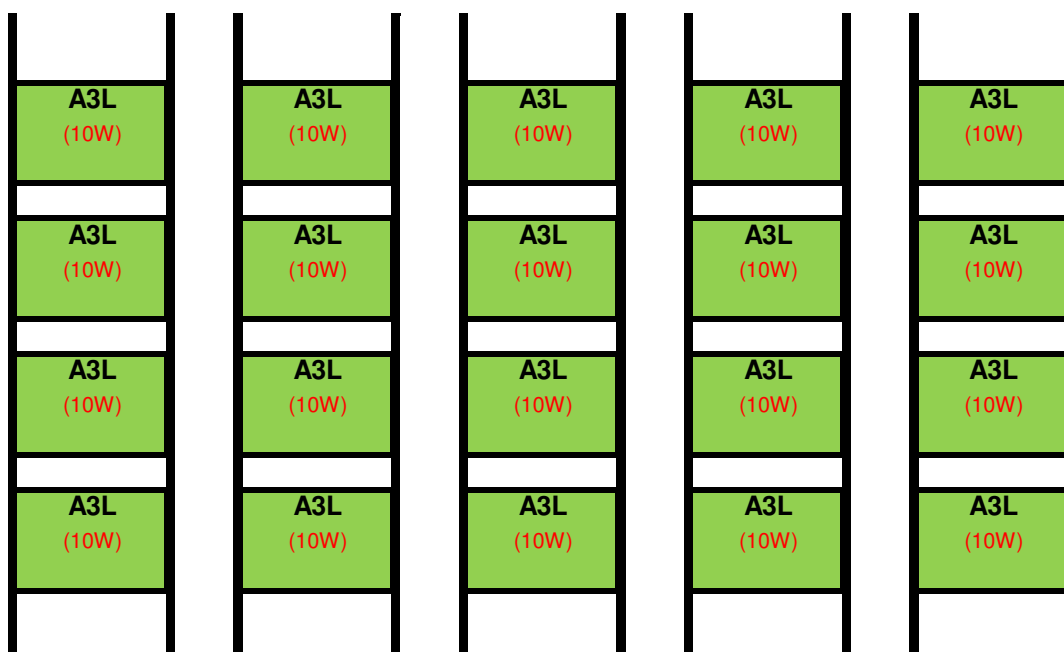
LED Panels have 4x in-built corner grippers

The top grippers hold the LED to the suspended cables

The bottom grippers do the same but, also collect the "Positive & Negative" power

Transformer - If you are adding the transformer say, on the far left of the display.....

All the "+" Cables & "-" Cables will need to be longer and longer



Fitting - Do not rush the fitting

If not 100% sure - wire up 1x drop then, turn on the power to see if it illuminates

If it does - brilliant

If it does not, double check the "+" and "-" cables on in the correct position and secured 100%

Now turn the power off and wire up the 2nd drop

If all illuminates - brilliant

Now turn the power off and wire up the 3rd drop

If all illuminates - brilliant

Now turn the power off and wire up the 4th drop

If all illuminates - brilliant

Now turn the power off and wire up the 5th drop

If all illuminates - brilliant

Some on & some off?

If you are following the above actions & you detect a 1 or 2 LED Panels are not illuminating

Double-check each LED "+" is on the correct side - OR - Gripper is not tightened 100%