

Important note - all electrical connections must be made with the electrical supply switched off.

Components required



20 AWG wire



M3 screws



Bright Green Beam modules

BGB-100XX-300

BGB-100XX-100



Power supply

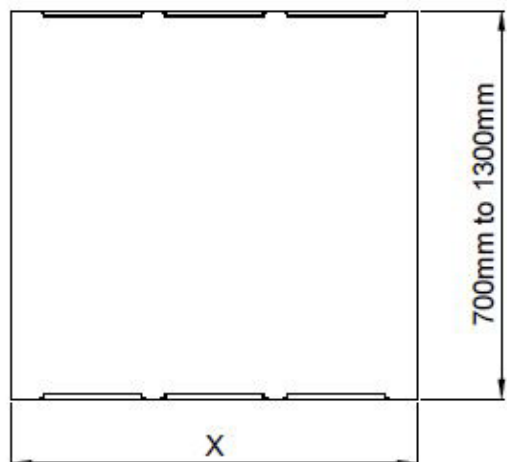
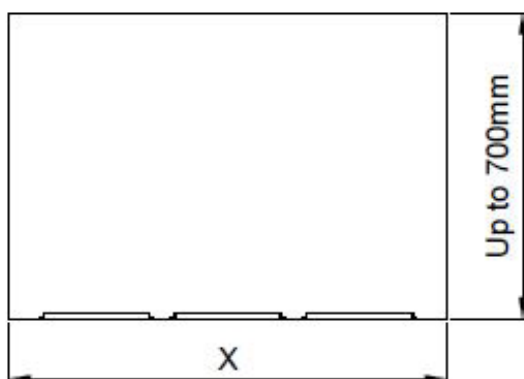


Wire connectors

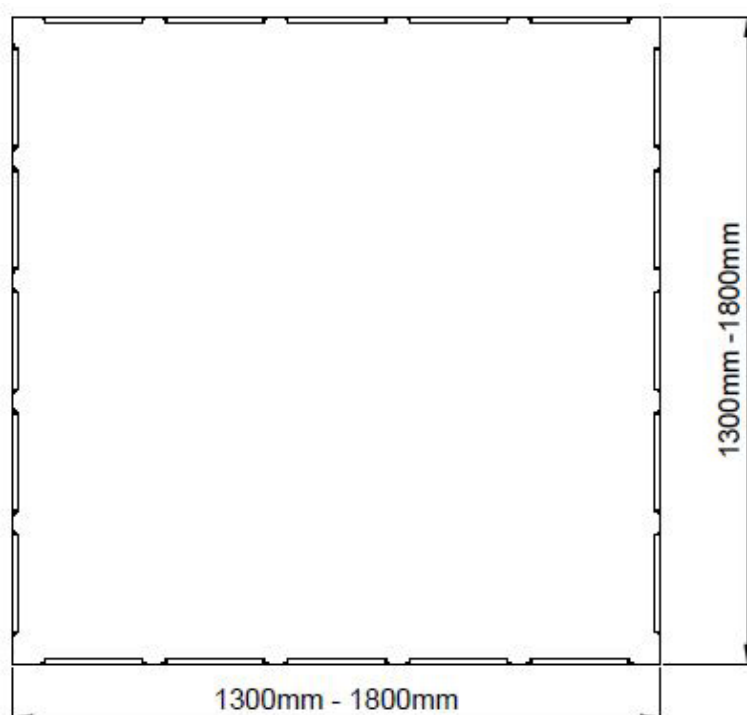
Layout

Determine the layout of your Bright Green Beam based on your overall sign dimensions and using the guidelines below. When you have decided on your layout, cut where necessary. Use screws to secure each module.

Note - Bright Green Beam can be cut between any of the modules.



Minimum box depth - 50mm



Electrical connection

Important note - all electrical connections must be made with the electrical supply switched off. Working on the LEDs with the electrical supply switched on can damage the LEDs.

- 1 Bright Green Beam needs to be connected correctly. Power must flow from IN to OUT throughout the chain of modules.



- 2 At the end of each string the Positive and Negative cables must be connected together, this completes the circuit. This can be done using a 3M UY2 connector or similar.



- 3 The constant current version of Bright Green Beam is designed to be used with a constant current power supply. Do not use a constant voltage power supply.
- 4 Ensure the number of modules for the power supply being used is within the minimum and maximum range for the PSU. These can be found on the power supply table on the next page.
- 5 Connection to the mains must be made by a suitably qualified operative. Do not look directly at the exposed module in operation - risk of eye injury.

The maximum number of 3 LED modules in series is 5.

The maximum number of 1 LED modules in series is 15.

For either option this is 15 LEDs in total based on a 700mA 35W power supply.

Important note - all electrical connections must be made with the electrical supply switched off.

Power supply table

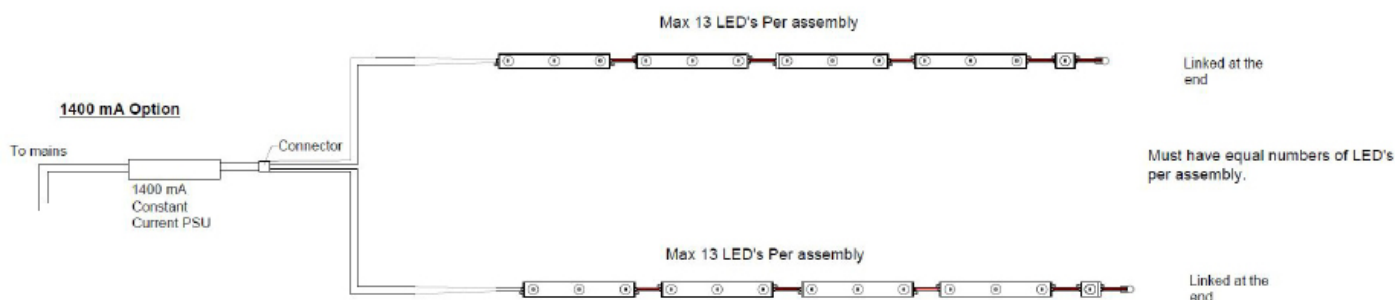
700mA power supply options - 1 string

Product code	Current	Voltage range	Minimum voltage	Maximum voltage	Minimum LEDs	Maximum LEDs
PUC-I032	700mA	2-48V	2	48	1	15
PCC70020	700mA	2-29V	2	29	1	9
PCC70040	700mA	2-57V	2	57	1	17

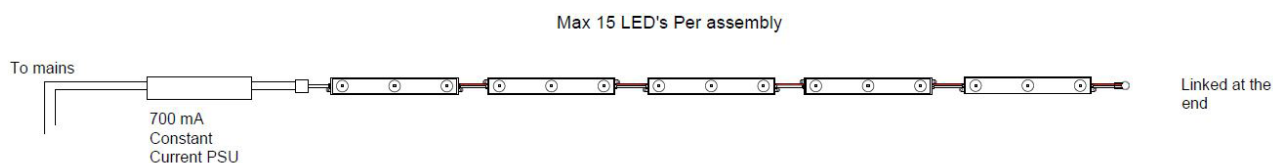
1400mA power supply options - 2 strings in parallel

Product code	Current	Voltage range	Minimum voltage	Maximum voltage	Minimum LEDs	Maximum LEDs
PUC-I064	1400mA	9-42V	9	42	4 per string	13 string
PCC140040	1400mA	2-28V	2	28	1 per string	9 per string
PCC140060	1400mA	26-43V	26	43	9 per string	13 per string

Electrical layout example



700 mA Option



Important note - all electrical connections must be made with the electrical supply switched off.

Components required



20 AWG wire



M3 screws



Bright Green Beam modules:

BGB-3XX-IP-50

BGB-1XX-IP-50



Power supply

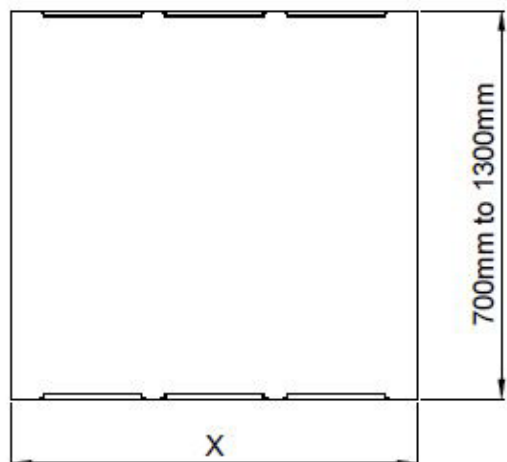
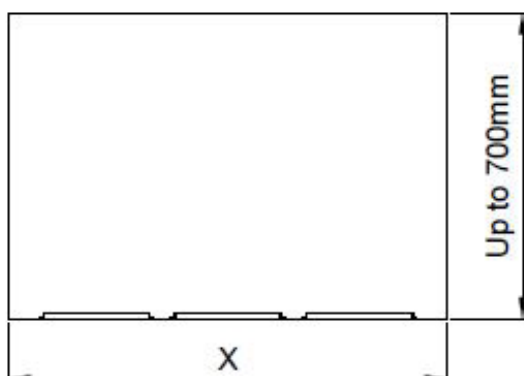


Wire connectors

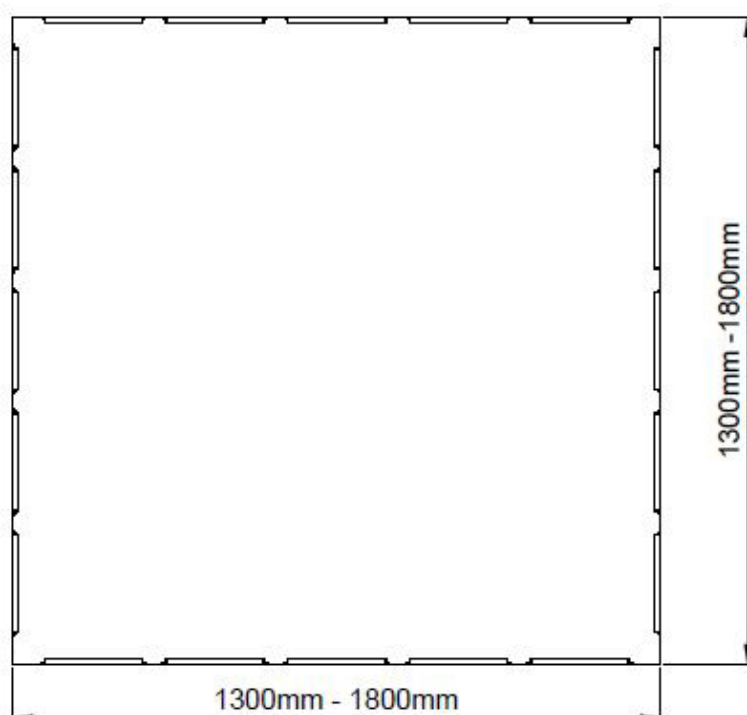
Layout

Determine the layout of your Bright Green Beam based on your overall sign dimensions and using the guidelines below. When you have decided on your layout, cut where necessary. Use screws to secure each module.

Note - Bright Green Beam can be cut between any of the modules.



Minimum box depth - 50mm



Electrical connection

Important note - all electrical connections must be made with the electrical supply switched off. Working on the LEDs with the electrical supply switched on can damage the LEDs.

The constant voltage version of Bright Green Beam is designed to be used with a constant voltage power supply. Do not use a constant current power supply.

Ensure the number of modules for the power supply being used is within the minimum and maximum range for the PSU. These can be found on the power supply table below.

Connection to the mains must be made by a suitably qualified operative. Do not look directly at the exposed module in operation - risk of eye injury.

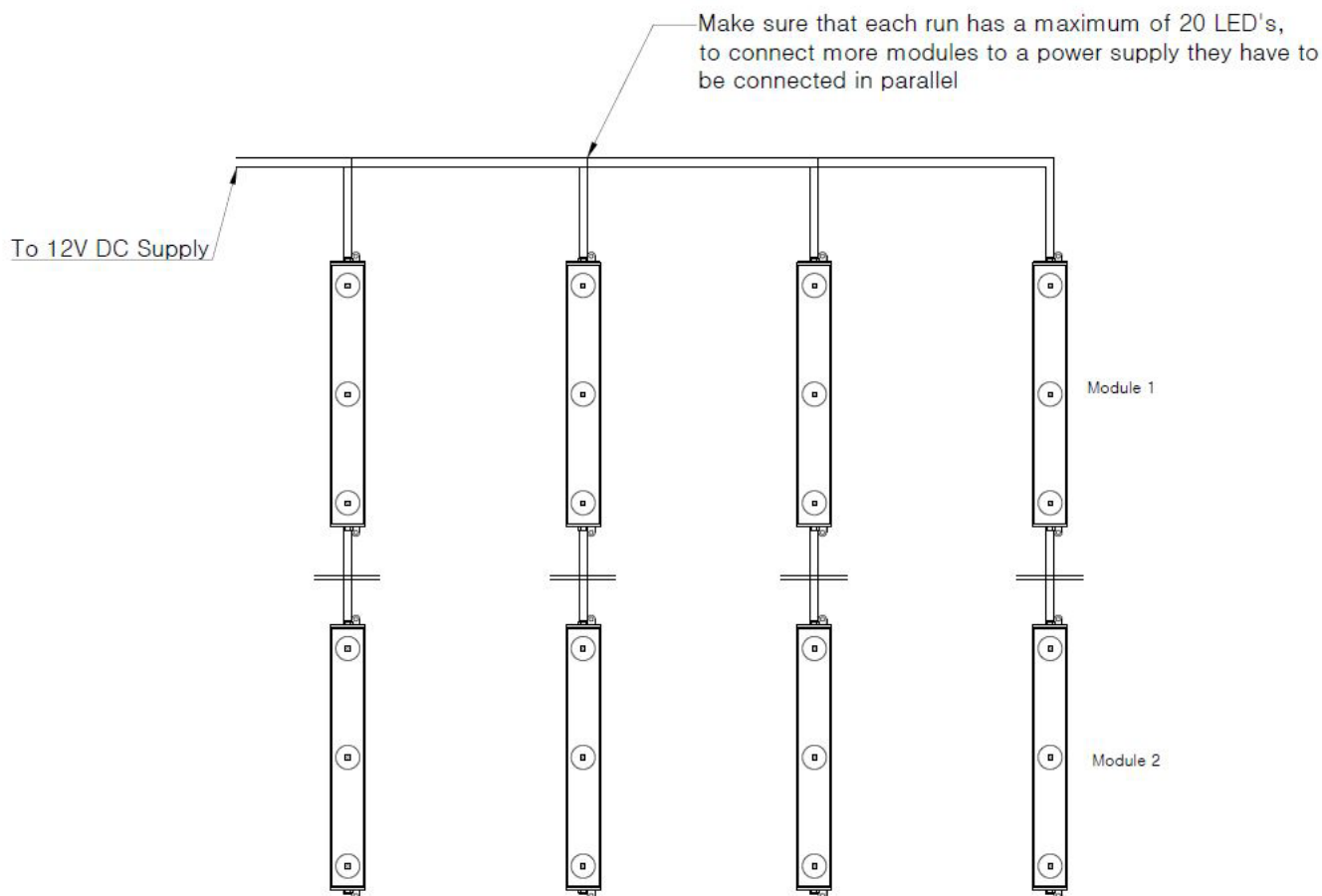
The maximum number of 3 LED modules in series is 6.

The maximum number of 1 LED modules in series is 20.

Power supply table

Product code	Wattage	Voltage	Maximum LEDs
PUC-V06C	60W	12V	21
PUC-V10C	100W	12V	35
MWH-V24C-AP	192W	12V	68

Electrical layout example



Important note - all electrical connections must be made with the electrical supply switched off.

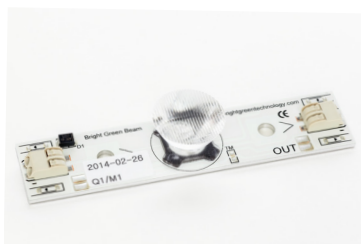
Components required



20 AWG wire



M3 screws



Bright Green Beam modules

BPCB-85XX-(length)

BPCB-100XX-(length)



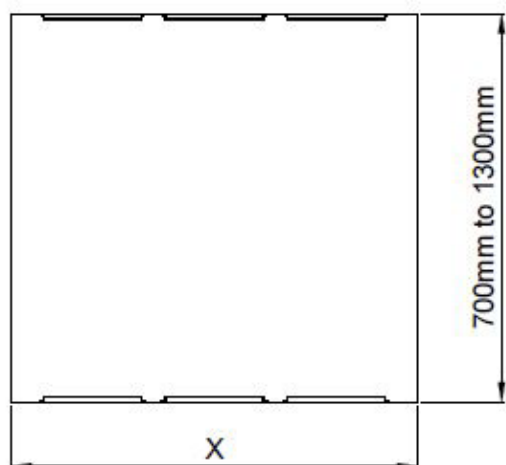
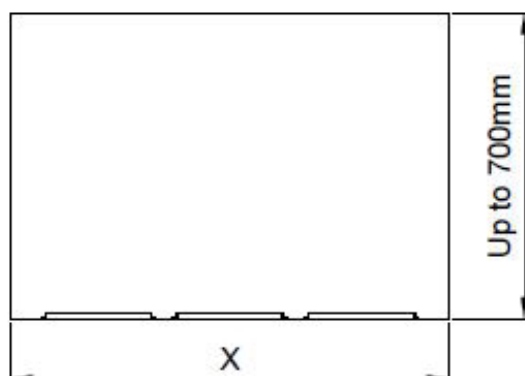
Power supply



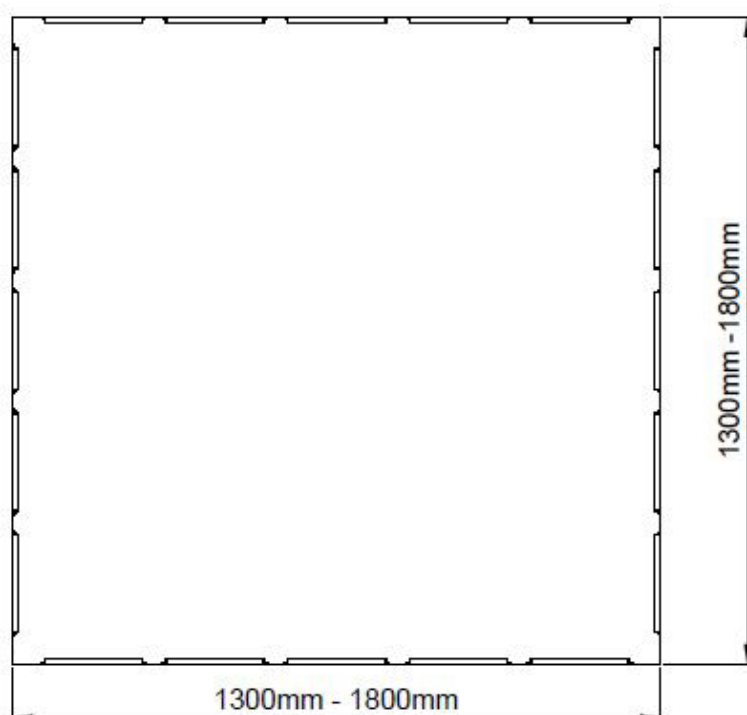
Wire connectors

Layout

Determine the layout of your Bright Green Beam based on your overall sign dimensions and using the guidelines below. When you have decided on your layout, ensure the fixing surface is clean and dry, remove the adhesive backing cover and press the Beam module firmly to the surface, holdig for 30 seconds to ensure adhesion.



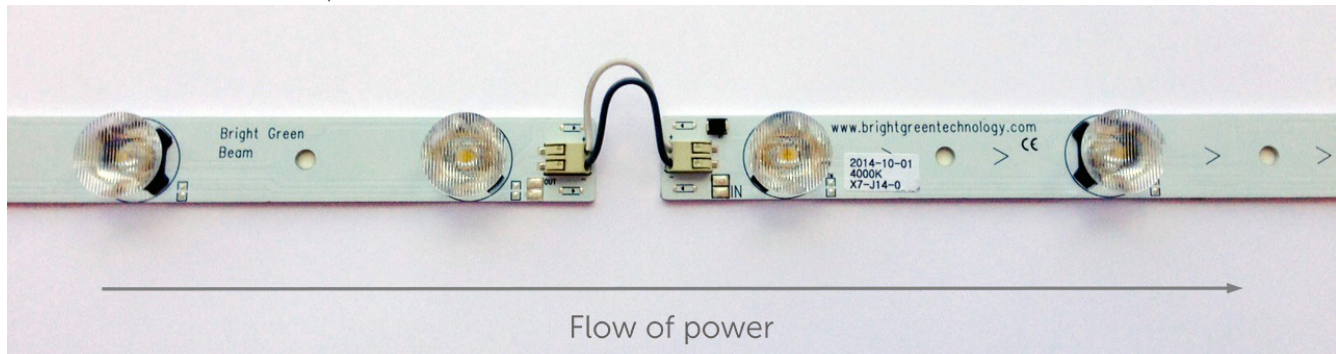
Minimum box depth - 50mm



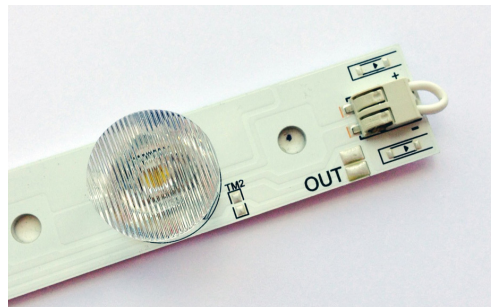
Electrical connection

Important note - all electrical connections must be made with the electrical supply switched off. Working on the LEDs with the electrical supply switched on can damage the LEDs.

- 1 Bright Green Beam needs to be connected correctly. Power must flow from IN to OUT throughout the chain of modules. Depress the pad on the connector using ball pen or similar. Insert stripped cable into connector and release pressure.



- 2 At the end of each string the Positive and Negative cables must be connected together, this completes the circuit.



- 3 The constant current version of Bright Green Beam is designed to be used with a constant current power supply. Do not use a constant voltage power supply.
- 4 Ensure the number of modules for the power supply being used is within the minimum and maximum range for the PSU. These can be found on the power supply table on the next page. For maximum number of modules that can be connected in series please refer to the table opposite
- 5 Connection to the mains must be made by a suitably qualified operative. Do not look directly at the exposed module in operation - risk of eye injury.

Important note - all electrical connections must be made with the electrical supply switched off.

Power supply table

700mA power supply options - 1 string

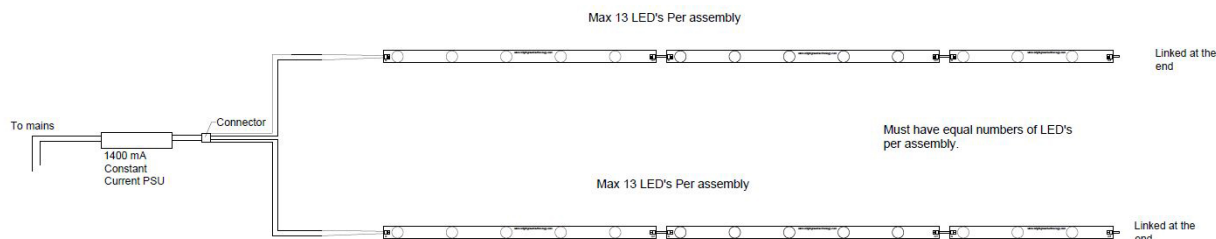
Product code	Current	Voltage range	Minimum voltage	Maximum voltage	Minimum LEDs	Maximum LEDs
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PCC70020	700mA	2-29V	2	29	1	9
PCC70040	700mA	2-57V	2	57	1	17

1400mA power supply options - 2 strings in parallel

Product code	Current	Voltage range	Minimum voltage	Maximum voltage	Minimum LEDs	Maximum LEDs
PUC-I064	1400mA	9-42V	9	42	4 per string	15 per string
PCC140040	1400mA	2-28V	2	28	1 per string	9 per string
PCC140060	1400mA	26-43V	26	43	9 per string	13 per string

Electrical layout example

1400 mA Option



700 mA Option

