

INSTALL GUIDE

Bright Green Beam Constant Current

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-100**-300

BGB-100**-100



Power supply

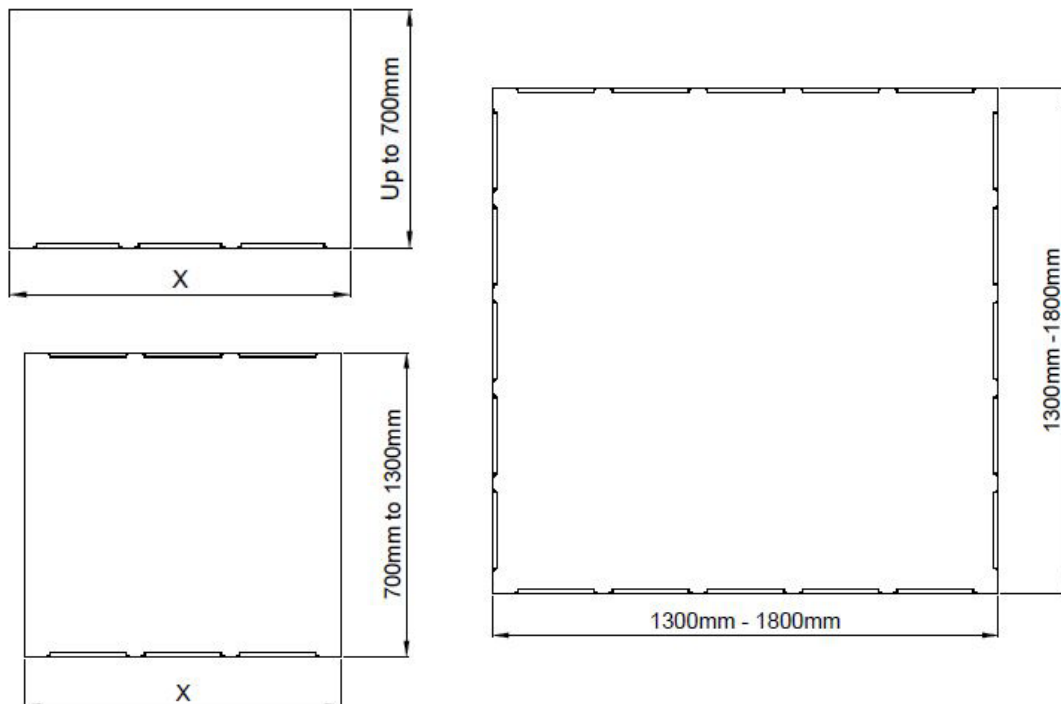


Wire connectors

Layout

Determine the layout based on the overall sign dimensions and using the guidelines below. Use screws to secure each module. Bright Green Beam can be cut between any of the modules.

Minimum box depth - 50mm



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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.

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



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.



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.

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.

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.

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LED driver table

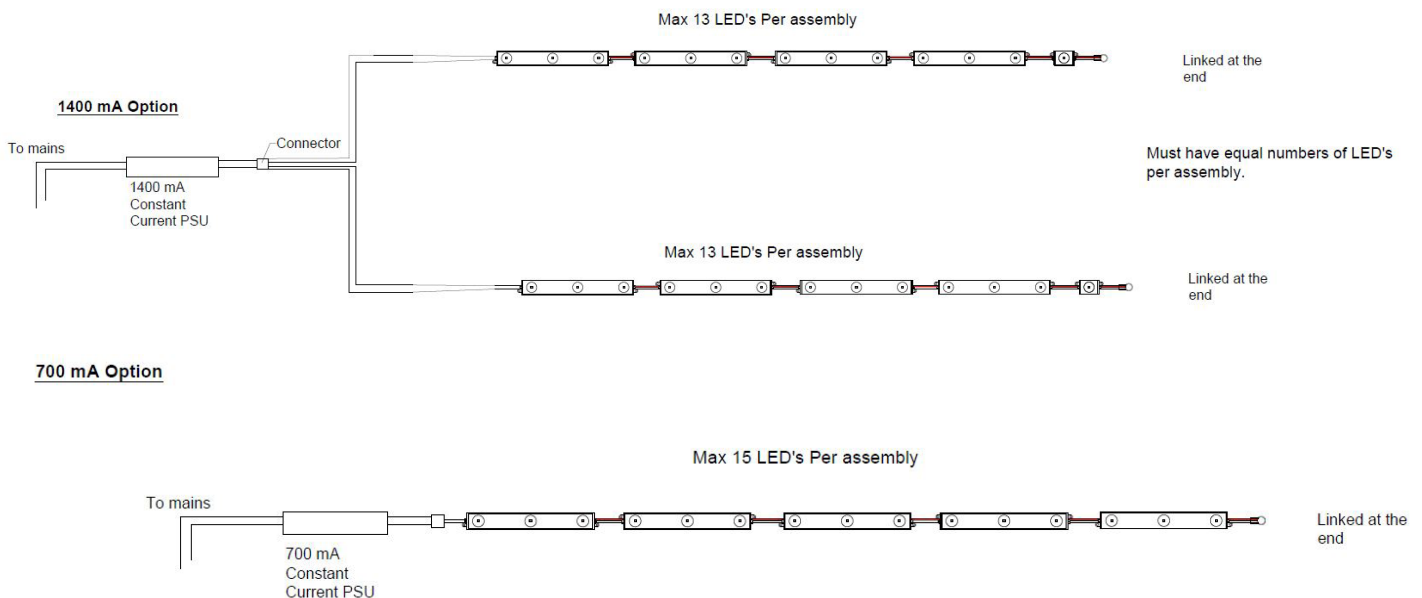
700mA power supply options - 1 string

Current	Voltage range	Minimum voltage	Maximum voltage	Minimum LEDs	Maximum LEDs
700mA	2-48V	2	48	1	15
700mA	2-29V	2	29	1	9
700mA	2-57V	2	57	1	17

1400mA power supply options - 2 strings in parallel

Current	Voltage range	Minimum voltage	Maximum voltage	Minimum LEDs	Maximum LEDs
1400mA	9-42V	9	42	4 per string	13 string
1400mA	2-28V	2	28	1 per string	9 per string
1400mA	26-43V	26	43	9 per string	13 per string

Electrical layout example



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Storage

Storage temperature range: -30 to 30°C

Store in a cool, dry place. Protect from dust and direct heat

Handling Notes

Do not bend or cut Bright Green Beam

Maintenance

Bright Green Beam is not user serviceable, no planned maintenance is required