

Bright Green Grid 30 Install & Handling Guide

Components required



18 -20 AWG wire



Bright Green Grid 30



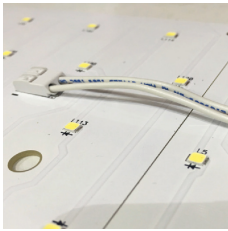
Power supply



Wire connectors



M4 screws



Interconnect cables

Box constraints

Minimum box depth: 40mm

Construction

Principle materials: FR4 PCB

Each panel has 4 x WAGO 2060 connectors to allow for electrical connections. It is possible to connect the panels together using any of the WAGO connectors on the board.

Layout

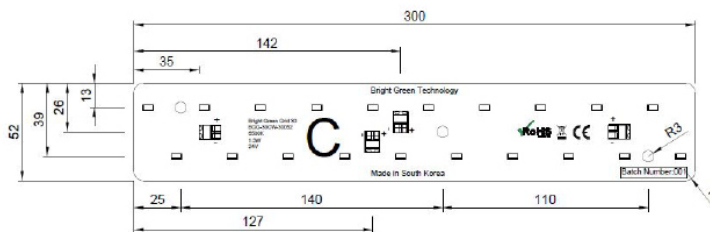
Panels are set out according to provided layout drawings.

If drawings have not been provided, start by placing as many A Panels in the available space. The panels are designed to be butted up to the next panel. This ensures the LED pitch remains constant throughout the box ensuring an even illumination.

When steps 1 & 2 have been completed, start laying out Panel B. Panel B is used to fill in the remaining vertical section.

Panel C will be used to fill in the remaining horizontal section.

Panel D is used to fill in the top right hand corner of the box.



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We recommend using Bright Green Interconnect Cables. If you choose not to use these then please see the cable specification required below:

Connecting Grid 30 Panels using solid core cable

Strip the cable insulation back by 6-7mm

Push cable into connector

To release the cable lightly depress the lever on the connector and pull the cable out

Connecting Grid 30 Panels using stranded cable

Strip the cable insulation back by 7mm

Lightly depress the lever connector with a pen or screwdriver

Insert cable and release lever

To release the cable lightly depress the lever on the connector and pull the cable out

Power requirements

Our engineers will provide details of the power supplies needed based on the specific box size and depth.

Electrical Connection

Connect a maximum of 13 A panels in series - or equivalent combination of A/B/C/D panels. To connect further panels, use a parallel connection

Notes & Handling

Store Grid 30 panels in a cool, dry place, make sure to protect from dust and heat

Take care when handling to avoid damaging electrical components

Only connect to a 24 volt power supply

Do not cut the Grid 30 panel or attempt to disassemble or modify the components in any way

Do not drop or bend the panel

Do not drill holes in the panel

Further information

Refer to <https://www.brightgreentechnology.com/resources/> for further information and a video guide