INSTALL GUIDE

Bright Green Grid

Components required











18 - 20 AWG wire

Bright Green Grid 30

Power supply

Wire connectors

M4 screws





Video installation guide: <u>https://www.</u> youtube.com/watch?v=um9A54JMVNk

Interconnect cables

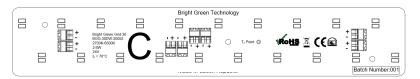
Box constraints

Minimum box depth: 40mm

Construction

Principle materials: FR4 PCB

Each panel has 4 x WAGO 2060 connectors to allow for electrical connections. Panels can be connected using any of the WAGO connectors on the board.



Layout

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 is 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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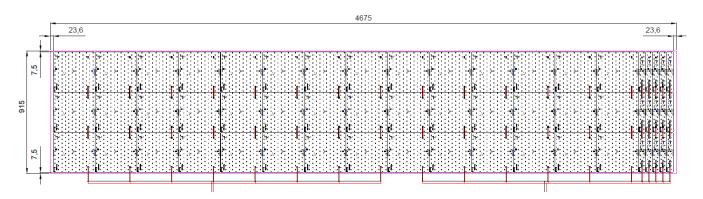
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Layout (cont.)

Example layout



Installation

Each panel is manufactured with a number of ø 4mm fixing holes. Once the panels have been laid out fix to the back of the box using M4 self-tapping screws and washers. Be careful not to overtighten the screw or use an oversize screw since this may cause damage to the panel.

Cable Specification

Cable type	Value
Solid Cable	0.2-0.75 mm² / 24-18 AWG
Fine-stranded wires	0.2-0.75 mm² / 24-18 AWG
Strip length	6-7 mm / 0.24-0.28 in

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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

Choose a 24V constant voltage LED driver, based on the power requirement of the panels

Electrical Connection

Connect a maximum of 8 A panels in series - or equivalent combination of A/B/C/D panels. To connect further panels, use a parallel connection or request a custom layout

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

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