



Wiring Accessories

GridLite USB Charger Module

Wiring Instructions

1. Power Off

Before commencing work always isolate the power at the consumer unit / fuse box.

*Note – If your installation uses a four-lug metal mounting box, remove the top and bottom lugs or bend fully back.

2a. Replacing an existing accessory

1. Unscrew the accessory from the wall/mounting box.

2. Note the cable connections:

The illustration shows 1 wire of each colour connected to each terminal. There should be an additional connection between the mounting box earth terminal and the accessory earth terminal.

3. Unscrew each terminal to release the wire.

2b. New installation

1. Install mounting box (metal or moulded) for either flush or surface mounting, ensuring appropriate size of product. (mounting box to be purchased separately).

2. Select the most suitable entry point of the mounting box (knock-out) and route the cables through. If a metal box is used, a cable grommet should be fitted to the entry point.

3. Cables should be prepared so a sufficient conductor length reaches the terminals. Strip the ends of the individual conductors leaving an adequate length bare to enter terminals.

3. Connection (See diagram)

1. Line up the new accessory to mounting box and take note of where each terminal is located.

2. Connect each wire to the matching terminal.

An earth connection should always be made between the mounting box earth terminal and the accessory earth terminal, where fitted.

All bare earth wires must be sheathed with green/yellow sleeving.

When connecting the new accessory ensure that only the bare end of the wire enters the terminal and no bare wires are visible.

3. Tighten terminal screws securely. (Do not over tighten)

4. Complete Installation & Test

1. Carefully position the accessory into the mounting box, ensuring that no wires are trapped between the plate and the wall and secure with screws (do not over tighten) then insert screw covers (optional).

2. Once the installation has been completed correctly, replace the fuse/reset MCB (trip), switch the power back on at the consumer unit and test.

5. Insulation Testing

The USB module is designed to withstand insulation resistance tests at 500V. A reading of 10MΩ minimum is typically achieved by the USB module.

For your safety, this product must be installed in accordance with local Building Regulations. **If in any doubt, or where required by the law, consult a competent person who is registered with an electrical self-certification scheme.** Further information is available online or from your Local Authority.

Please read carefully and use in accordance with these safety wiring instructions. Before commencing any electrical work ensure the supply is switched off at the mains. Either by switching off the consumer unit or by removing the appropriate fuse or turning off MCB (trip). Wiring should be in accordance with the latest edition of the IET regulations (BS 7671).

To prevent fire hazard always use cable of the correct rating & type for the application.

Warning: Do not exceed the load rating of this device as stated on the rear of the product.

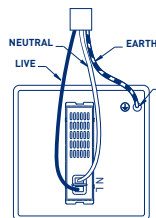
Wire Identification – Twin & Earth Cable

Note - As from 1st April 2004 new colour codes for hard wire installations were introduced.

EARTH = Green/Yellow Sleeving

NEUTRAL = Black (pre Apr 04) / Blue (after Apr 04)

LIVE = Red (pre Apr 04) / Brown (after Apr 04)



Class II equipment

Equipment of overvoltage category III

Indoor use only

SMPS (Switch mode power supply unit)

SMPS incorporating a short-circuit-proof safety isolating transformer

USB Charger Information

The max power in Watts (W) of the USB module is shown on the surface of the product.

Charging Performance

Several factors can have an impact on the USB charging performance.

Please check the specification table for the output rates and charging protocols. The charging performance is dictated by the device connected; a device will have a limit on the power it can receive.

The USB cable plays a significant role in charging speed. Lower quality cables may have higher resistance, limiting the amount of current that can pass through, slowing charging speeds. Higher quality or certified cables, especially for fast charging, can improve performance.

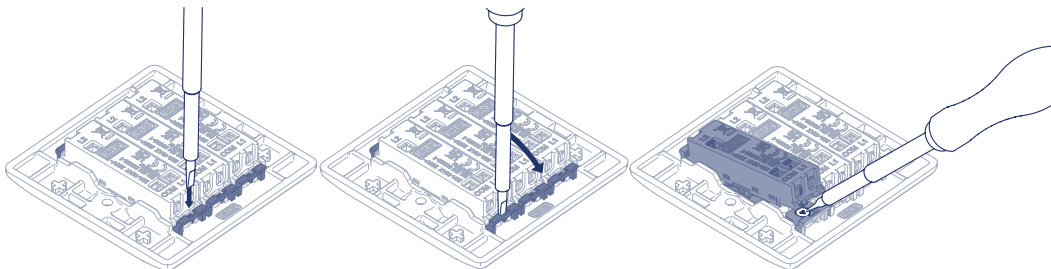
Care should be taken when inserting and removing cables from the USB ports to prevent damage.

Please check your device compatibility instructions to determine whether this product matches your equipment requirements.

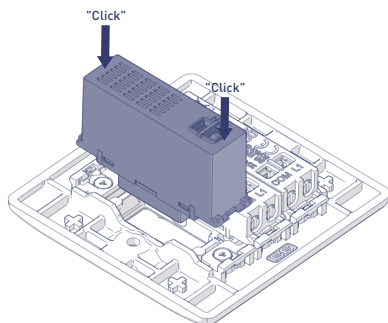
Specification	20W USB Type-C
USB Output	USB C: 5V DC 3.0A 15.0W MAX 9V DC 2.2A 19.8W MAX 12V DC 1.6A 20.0W MAX
Input	230V~50Hz
Average active efficiency	USB C: 5V DC 3.0A: >81.39% 9V DC 2.2A: >85.47% 12V DC 1.6A: >85.48%
Efficiency at low load(10%)	USB C: 5V DC 3.0A: >78.14% 9V DC 2.2A: >81.67% 12V DC 1.6A: >77.28%
No load power consumption	1 Port <0.10W
Manufacturer's model identifier	MxUSBC20x

Module Removal & Replacement

1. To remove a module from the front plate, use a slotted screwdriver to lever the module out of the plate.



2. To fit module into plate, push into place, ensuring it is securely held in place by the clips at the top and bottom of the module.



All GridLite modules can be fitted in either orientation.

Technical

Warranty

Voltage : 220-240V AC
Frequency : 50/60Hz
Rating : See charts
Terminal capacity : 2 x 1mm² 2 x 1.5mm²
Min box depth : 35mm

Confident in our workmanship and materials, BG offer a substantial guarantee on all our products.
The USB modules are covered by a 10 year warranty from the date of installation, subject to the terms and conditions of sale.
For more details, please scan the QR code.



SCAN ME

Care

Batch Code Explanation

To maintain the high quality appearance of decorative finish switches and sockets, BG Electrical recommend the use of a soft cloth periodically to clean the front face. When installing a decorative product please ensure that the wall is decorated, finished and free of moisture prior to installation.

BG Electrical recommends avoiding using, but not restricted to, these substances from becoming in contact with the decorative metal front-plates when cleaning or decorating:

- Adhesive tape, including low tack masking tape
- Solvents
- White spirit
- Multi surface cleaners
- Industrial multipurpose cleaning wipes
- Wet wipes

Using items like those listed above may cause a degrading effect to the front-plates lacquer/plated finish, although the function will remain unaffected.

yyWxx Manufacturing date code, year of manufacture (yy) and week of manufacture (Wxx)

Environmental Protection



This symbol is known as the "Crossed-out Wheelie Bin Symbol". When this symbol is marked on a product or battery, it means that it should not be disposed of with your general household waste. Some chemicals contained within electrical/electronic products or batteries can be harmful to health and the environment. Only dispose of electrical/electronic/battery items in separate collection schemes, which cater for the recovery and recycling of materials contained within. Your co-operation is vital to ensure the success of these schemes and for the protection of the environment.

Contact Information

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If you have further technical assistance you can get in touch with our

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