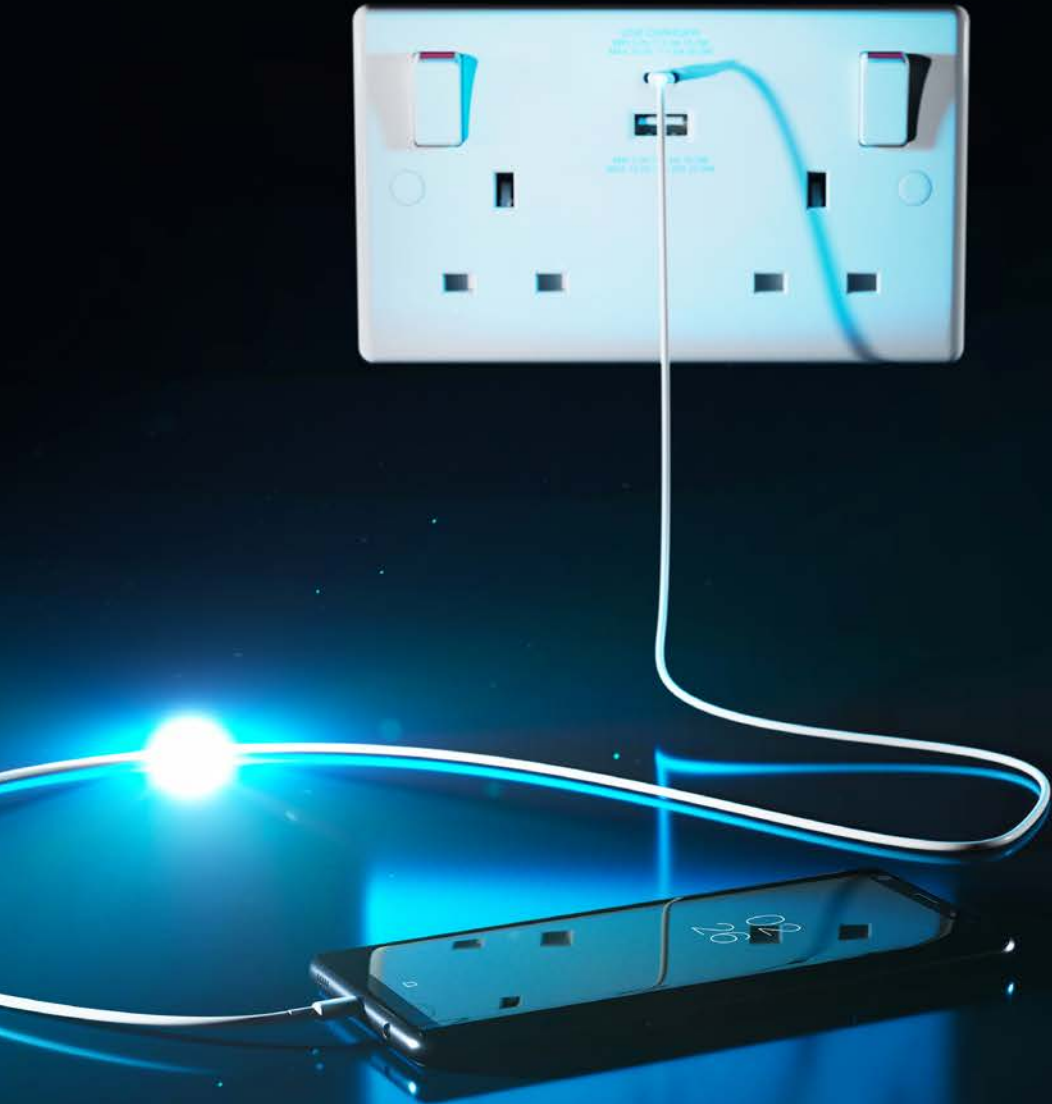




# 30W TYPE-C

## USB SOCKETS

... the most powerful, *fastest charging* USB wall socket.



[www.BG-TYPE-C.uk](http://www.BG-TYPE-C.uk)



# 30W TYPE-C

## USB SOCKETS

... the most powerful, **fastest charging** USB wall socket

This latest innovation from BG Electrical is the only true fast charging wall socket with integrated fast charge ports for both **USB-C** and **USB-A**.

Delivering true, fast charging of mobile phones, small laptops and tablets, BG Electrical's superior solution, which is easy to install, can deliver a **50% charge in just 30 minutes\*** – **70% faster than standard 5W charging\*\***.

These sockets are ideal for powering and efficiently charging larger devices such as tablets and laptops, without the need for bulky adaptors and without losing valuable power sockets.

In addition, the integrated smart charging has been thoughtfully designed to enable the socket to switch automatically to standby mode once the device is fully charged, thus eliminating any potential damage caused by overcharging.

Fast charging can deliver up to 50%\* charge to devices in just 30 minutes (\*iPhone X, iPhone 8, or iPhone 8 Plus) and an iPad Pro to 50% charge in 60 minutes, when paired with an Apple USB-C to lightning cable. Charge time varies with environmental factors and actual results will vary.

Ports can charge up to 70%\*\* faster than standard 5W charging (\*\*when charging a Google Nexus 6P or similar device from 0% battery).



BG Electrical products are guaranteed against faulty materials and workmanship for a period of 10 years from date of delivery.

All of BG Electrical's switches and sockets have been developed with the contractor in mind, with features that make installation as quick and as easy as possible.

Charge up **70% faster** than standard 5W charging\*\*

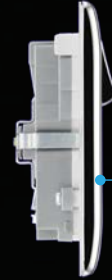
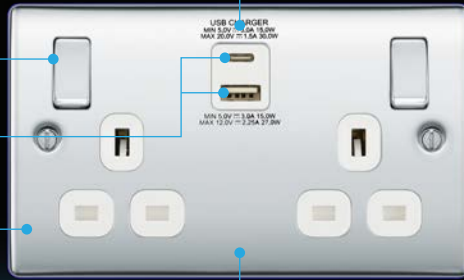
13A power sockets with integrated **'fast charge'**

Delivers **50% charge** to mobile phones in just **30 minutes\***

No visible plastic around switches

USB-A & USB-C ports

Brushed Steel finish with **lightly lacquered surface** to reduce fingerprint marks

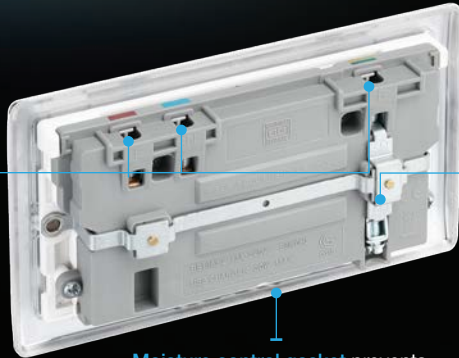


Sleek and slim metal profile with softly rounded edges

**Smart Charging** - Intelligently adjusts the voltage to give devices the power they need, when they need it, without overcharging

Supports **PD and QC** charging protocols and outputs the best voltage & current for optimum charging

Angled, colour coded terminals with captive screws



Twin earth for high integrity circuits

Moisture control gasket prevents tarnishing from new plaster (Nexus Metal only)



## Universal Compatibility

Compatible with all smartphone brands including Apple, Samsung, Google and Huawei.



USB-C to Lightning Cable

Apple Lightning Devices



USB-C to USB-C

Samsung and other USB-C Devices

For the full range of Masterplug Type C cables, see page 7

30W TYPE-C USB SOCKETS

## What is Fast Charging?

The BG USB socket delivers fast charging by using **variable voltage output**, as well as using the fast charging standards of USB Power Delivery (USB-PD) & Qualcomm Quick Charge (QC).

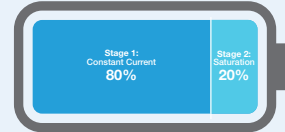


- The USB ports provide a **variable voltage output** compared to conventional 5V fixed chargers
- In simple terms, providing a **higher voltage increases the charging rate**
- To avoid damage to the connected device, the built-in Smart charging technology alters the charging characteristics overtime to provide optimum charging
- Fast charge can **only** be achieved by using a compatible charging cable and device

**Stage 1 : Constant Current:** Voltage increases towards its peak, while current stays constant at a high level. This is the phase where a lot of power is quickly delivered to the device.

**Stage 2 : Saturation:** This is the phase where the voltage has reached its peak and current drops down.

**Stage 3 : Trickle/Topping:** The battery is fully charged. In this phase, the power will either slowly trickle in, or will periodically charge a low “topping” amount as the phone consumes battery.



The amount of power and length of each process depends on the fast-charging standard. BG USB 30W sockets recognise the trickle charge stage and provide a full fast charge output to the other port - Other chargers do not do this.

## Choosing the right 'fast charging' technology

Charging technology rapidly evolves and USB Type-C is fast becoming the favoured method and charging preference of the future, as it carries more power and offers a faster transfer speed enabling quicker charging. USB Type-C is also reversible, so it inserts into the socket both ways. Furthermore, it is the international standard, eliminating the need for travel adaptors.

## Smart charging as standard

Smart charging means the socket will automatically switch to standby mode when the device is fully charged to prevent the risk of long-term damage to the battery.

- Identifies powered devices
- Supports most devices charging protocols and outputs the best voltage and current
- Intelligently distributes USB-A and USB-C output power



Smart charging can also reduce energy costs because the socket will stop charging once the device is fully charged, whilst offering an additional safety feature to protect from overloading.

## USB Power Delivery

USB Power Delivery (USB-PD, or PD) is a fast charging technology supported by certain Apple, Android and other devices. PD delivers much higher levels of power than standard USB charging. To use USB-PD you will need a USB-PD enabled device, USB-C cable and USB-PD charger.

Benefits include more power, faster charging, and voltage adjustment, which enables fast charging without delivering too much power which could lead to damaged circuitry from overcharging or overheating.

## Qualcomm Quick Charge

Qualcomm Quick Charge (QC) is a fast charging technology supported by popular smartphone manufacturers including Samsung, LG and Sony. QC delivers much higher levels of power than conventional USB charging with the same benefits as USB-PD. To use Qualcomm Quick Charge, you will need a QC enabled device, cable and charger.

## Emerging trends

We're in a digital age, and most of us are plugged into it 24/7. According to Ofcom's Online Nation 2020 report, 82% of the UK population now use a smartphone, with 52% owning a tablet. The average person now owns 6.5 connected devices that all require charging.

### Little surprise, but what is driving this device dependency?

Firstly, changing working patterns have had a significant impact. With the rise in flexible and mobile working, coupled with many people now working from home, the demand for accessible technology in residential and commercial spaces has meant we need to use our devices more than ever before.

With people carrying an unprecedented number of devices, and dependency on these devices growing, this leads to a new experience; **'charge anxiety'**. *This describes the stress or anxiety experienced by individuals when their devices are running low on battery*, with no access to a charging facility.

Independent research commissioned by BG Electrical found that 68% of people have experienced worry, concern, stress, or anxiety over an electronic device running out of battery at a critical time, particularly whilst outside of the home.



**6.58**

The average person now owns 6.58 devices



**80%**

Up to 80% of UK workers have worked remotely from a coffee shop



**68%**

68% of people have experienced charge anxiety, worry, concern, stress or anxiety over an electronic device running out of battery when outside the home

## Opportunities for the Contractor

There is an increased demand within the home to charge multiple devices at the same time, as well as much faster and easier charging. Having several BG Fast Charging wall sockets around the home enables every family member to charge their devices without an argument over who gets the charging adaptors first !!

In the commercial sector, high-footfall venues present a significant requirement for fast-charge points. From coffee shops, pubs, and restaurants, to hotels, conference venues, and airports ... having access to a fast USB charging socket is a selling point. As society becomes increasingly digital, and staying connected is critical, offering the facility for customers to fast charge their devices, and in turn reduce 'charge anxiety', could be a key factor in attracting customers.



# Range Overview

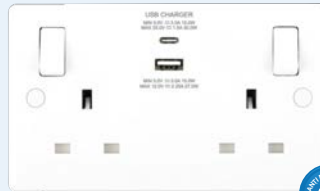
## 13 Amp Switched Socket with USB Charger – 2 x Outlets (30W Variable Output)

- Minimum mounting box depth: **25mm**
- Twin earth for high integrity circuits
- Angled, colour coded terminals with captive screws
- Terminal capacity: 3 × 2.5mm<sup>2</sup>, 3 × 4.0mm<sup>2</sup> & 2 × 6.0mm<sup>2</sup>

## White Moulded - 900 & 800 Series



922UAC30



822UAC30



### Anti Microbial Certified

Our anti-microbial white moulded products promote a healthy environment by facilitating up to 99% reduction in microbial development on touchpoint surfaces. Manufactured using high-grade thermoset Urea which effectively inhibits the growth of infectious diseases, including MRSA, E-Coli, Salmonella, and Klebsiella Pneumonia bacteria.

## Decorative - Black Nickel, Brushed Steel & Polished Chrome



NBN22UAC30B



NBS22UAC30G



NPC22UAC30W



# USB POWER

 | charge and sync your USB-C devices


## USB C Charge and Sync Cables

CAT NO.	TYPE	DESCRIPTION	RATING	LENGTH	COLOUR
USBAC35G1-MP	USB A to C	Charge & Sync Cable 18W 5GBPS	3A	1m	White
USBCC510G1-MP	USB C to C	Charge & Sync Cable 18W 5GBPS	5A	1m	White
USBCL35G1-MP	USB C to Lightning	Charge & Sync Cable 18W 5GBPS	2A	1m	White



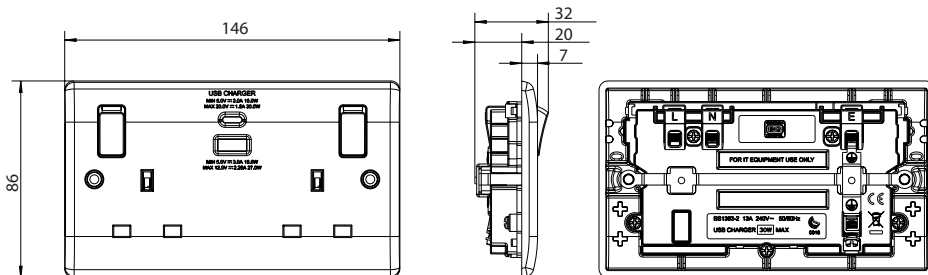
# Technical Specifications

<b>Standard(s)</b>	BS1363
<b>Rating</b>	13 Amp 240V~
<b>Contact Gap</b>	3.0mm minimum
<b>Switch Type</b>	Single Pole
<b>Terminal Capacity - L &amp; N</b>	3 x 2.5mm <sup>2</sup> , 3 x 4.0mm <sup>2</sup> & 2 x 6.0mm <sup>2</sup>
<b>RoHS Directive</b>	Yes, conforms
<b>WEEE Directive</b>	Yes
<b>Mounting Box Depth (Min)</b>	25mm
<b>Fixing Centres</b>	120.6mm



# Electrical Specifications

<b>Input Requirement</b>	Input voltage range	200-240Vac±10%
	Input frequency range	50/60Hz
	Input current	1A Max
	Turn on delay time	≤1S
<b>Input Protection</b>	Input current protection	2A Fuse
<b>USB C Output</b>	Output power	30W Max
	Output	5V/3A; 9/3A; 12V/2.5A; 15V/2A; 20V/1.5A
	Charge protocols	PD3.0; QC4.0; Apple; Samsung; Huawei; BC1.2;
<b>USB A Output</b>	Output power	27W Max
	Output	5V/3A; 9V/3A; 12V/2.25A
	Charge protocols	BC1.2; Apple 2.4A; QC3.0; AFC; FCP
<b>USB Output when both A &amp; C ports are in use</b>		USB-C 15W (5V/3A)Max USB-A 10W (5V/2A)Max
<b>No load power consumption</b>		< 0.1W When output demand falls to below 100mA (connected device is fully charged) variable voltage output returns to the other port (fast charge).
<b>Protection</b>	DC output overcurrent protection	Recover automatically
	DC output over voltage protection	Recover automatically
	Reset after shutdown	Yes
	Over-temperature protection	Yes



30W TYPE-C USB SOCKETS

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service outside these hours.