Fast charge technology: USB-C[™] Power Delivery





Content

Fast charge technology: USB-C [™] Power Delivery	
What do you need to be able to use the fast charge technology?	4
PC-Peripheral Devices – HUBs	5
USB – USB-C™ 3.1 Gen.1	7
USB – USB-C™ 3.1 Gen.2	9
Cables – Sync & Charge	10
Chargers – for wall sockets	11

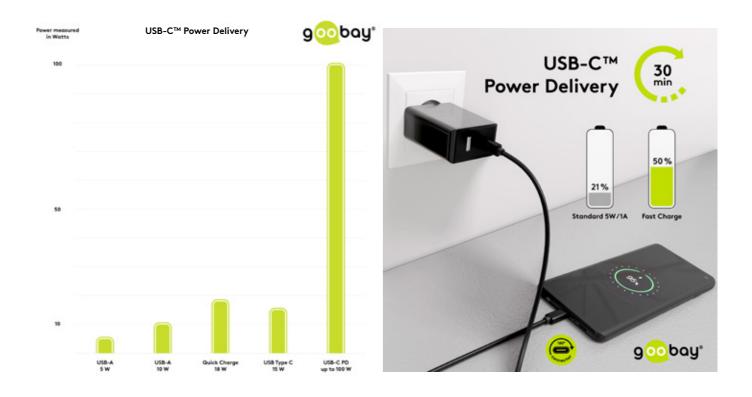
Fast charge technology: USB-C[™] Power Delivery

Smartphones and other mobile end devices impress with ever increasing battery life. However, if the battery is running low, a quick solution is needed. The end user is usually not interested in the technology that leads to the battery being fully charged quickly. However, there are differences between the fast charging standards that lead to different charging times.

Super Charge (Huawei), Turbo Charge (Motorola) and Adaptive Fast Charging (Samsung) are manufacturerbound standards that are not automatically compatible with each other and partly require special accessories. This is another reason why there is often a lack of clarity when it comes to fast charging technology. Google would like to eliminate these ambiguities and explains in its guidelines that new devices from Android manufacturers must be compatible with **USB-C[™] Power Delivery** from 2019.

Fast and secure

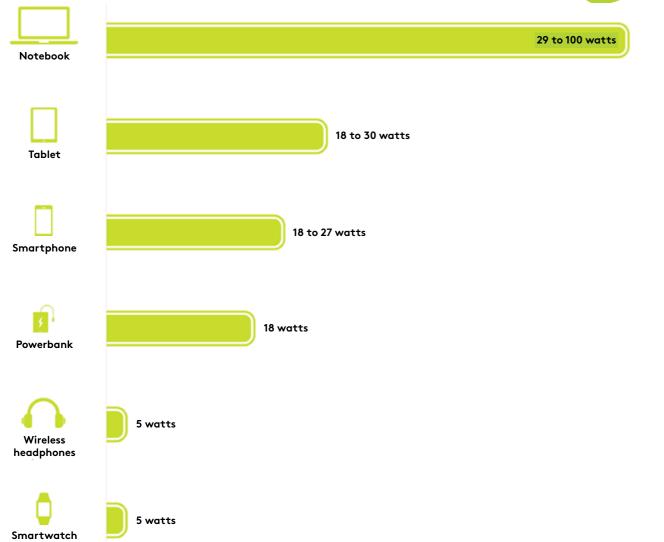
The standard USB-C[™] Power Delivery (USB-PD), which is open to all manufacturers, is both powerful and future-proof. With an output of up to 100 watts, USB-PD can charge devices up to 70% faster than with 5-watt charging power.



A big advantage of Power Delivery is the variable use, so that even laptops and tablets can be charged. The USB-PD charger recognises how much power the connected device requires for quick charging without causing damage to the switching mechanism. The danger of overheating due to the increased wattage is also prevented by special USB-C[™] boards.



USB-C[™] Power consumption



What do you need to be able to use the fast charge technology?

USB-PD compatible device

To benefit from higher wattage chargers, users need a USB-PD compatible device. A smartphone that only allows 20 watts of power will not benefit from a 45-watt charger. Here, the choice should be a charger with a lower wattage.

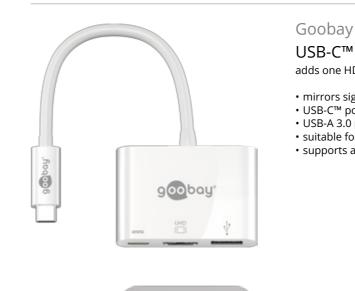
USB-C[™] charging cable

USB-C[™] ports were designed in cooperation with Power Delivery to handle the high wattage. USB-C[™] PD charging cables for Android devices and USB-C[™] Lightning charging cables for Apple devices are required..

USB-PD compatible charger

The fast charge technology can only be used if the wall or car charger is also USB-PD-compatible.

The Goobay[®] brand has a range of PD-compatible charger cables and chargers for Android and Apple in its range, so that the potential of PD-compatible devices can be fully exploited.







to a USB-C[™] device

Goobay

- suitable for MacBook and MacBook Pro and other devices with USB-C[™] connection

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Goobay

- suitable for MacBook, MacBook Pro and other devices with USB-C[™] connection



62100 Retail Polybag





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USB-C[™] Multiport Adapter (HDMI, PD), white

adds one HDMI[™] connection and one USB 3.0 connection to a USB-C[™] device

• mirrors signals from USB-C[™] to HDMI[™] and USB devices • USB-C[™] port for high-speed charging with PD of up to 60 W • USB-A 3.0 port for fast data transfers and charging • suitable for MacBook and MacBook Pro and other devices with USB-C™ connection • supports a resolution of up to 1080 pixels at 60 Hz4k@30Hz



USB-C[™] Multiport Adapter (HDMI + Ethernet, PD), white

adds one Ethernet connection, one HDMI™ connection and one USB 3.0 connection

- mirrors signals from USB-C[™] to HDMI[™] and USB devices
- supports HDMI[™] resolution of up to 4k x 2k @ 30 Hz
- USB-C[™] port for high-speed charging with PD of up to 60 W
- high-speed network connection via build-in Ethernet port (gigabit)
- USB-A 3.0 port for fast data transfers and charging

USB-C[™] Multiport Adapter (VGA, PD), white

adds one USB 3.0 connection and one VGA connection to a USB-C[™] device

- mirrors signals from USB-C[™] to VGA, USB and USB-C devices
- USB-C[™] port for high-speed charging with PD of up to 60 W
- USB-C[™] port can also be used for data transfers (5G)
- USB-A 3.0 port for fast data transfers and charging
- supports a resolution of up to 1920 x 1200 pixels at 60 Hz



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Please refer to order-codes when placing an order. Illustration and packaging similar. Changes and errors excepted. Other products on request.

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76788 Retail Box

USB-C[™] adapter (VGA, PD), white

adds one VGA connection to a USB-C[™] device

• mirrors signals from USB-C[™] to VGA devices • USB-C[™] port for high-speed charging with PD of up to 60 W • supports a resolution of up to 1080 pixels at 60 Hz • suitable for MacBook and MacBook Pro and other USB-C devices



62107 Retail Polybag

USB-C[™] POWER DELIVERY – USB – USB-C[™] 3.1 GEN.1

USB-C[™] Multiport Adapter (HDMI 4k 30 Hz, USB, CR, RJ45, PD), aluminium, silver

adds one Ethernet connection, one HDMI[™] connection, two USB 3.0 connections, one USB-C[™] connection and a card slot for SD cards to a USB-C[™] device

• mirrors signals from USB-C[™] to HDMI[™] and USB devices • supports HDMI[™] resolution of up to 4k×2k@30Hz • USB-C^m port for high-speed charging via power delivery and data transfer rates of up to 5 Gbps

• reads SD memory cards • high-speed network connection via build-in Ethernet port • 2 USB-A ports for fast data transfers and charging • suitable for MacBook and MacBook Pro



Please refer to order-codes when placing an order. Illustration and packaging similar. Changes and errors excepted.

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USB-C[™] PD charging and sync cable 60W

for devices with a USB-C[™] (Gen.1) connection;black

- high-speed charging with a maximum of 5 A /60 W / 20 V thanks to Power Delivery function
- flexible 1 m cable for sufficient reach
- USB 3.1 cable for synchronising and charging
- SuperSpeed+ data transmission rate up to 10 Gbps (20 times faster than USB 2.0)
- USB-C[™] connector can be used on both ends

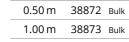


Goobay USB-C[™] male > USB-C[™] male









Goobay

USB-C[™] PD charging and sync cable 60W

for devices with a USB-C[™] (Gen.1) connection;white

- high-speed charging with a maximum of 5 A /60 W / 20 V thanks to Power Delivery function
- flexible 0.5 m cable for sufficient reach
- USB 3.1 cable for synchronising and charging
- SuperSpeed+ data transmission rate up to 10 Gbps (20 times faster than USB 2.0)
- USB-C[™] connector can be used on both ends

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1.00 m 40791 Retail Polybag



Goobay

USB-C[™] PD charging and sync cable 100W

for devices with a USB-C[™] (Gen.3.2) connection;black

- high-speed charging with a maximum of 5 A /100 W / 20 V thanks to Power Delivery function
- USB 3.2 cable for synchronising and charging
- SuperSpeed+ data transmission rate up to 20 Gbps (40 times faster than USB 2.0)
- USB-C[™] connector can be used on both ends



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0.50 m 49252 Retail Polybag 1.00 m 49254 Retail Polybag



USB-C[™] cable (USB 3.2 generation 2x2, 5A), black

• USB-C[™] connector can be used on both ends • for superfast synching and charging at up to 100 W / 20V / 5A • SuperSpeed20Gbps data transmissions up to 20 Gbit/s – 40x faster than USB 2.0



Goobay

Lightning - USB-C[™] USB charging and sync cable MFi cable for Apple iPhone/iPad; black

- narrow connectors also fit perfectly when using protective covers
- Supports Apple quick charge mode up to 87 W
- data cable with USB C 2.0 connector with transfer speed of up to 480 Mbps
- Apple MFI certification for unlimited compatibility with all lightning devices



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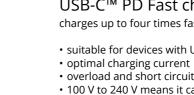
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black	4495
white	4495

58 Retail Polybag 59 Retail Polybag

Goobay

9@boy	-
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black	4496
white	4496

USB-C[™] PD Fast charger 18W

charges up to four times faster than standard chargers

• suitable for devices with USB-C[™] / PowerDelivery overload and short circuit protection • 100 V to 240 V means it can also be used abroad



Dual USB Qick Charger USB/USB-C PD 28W

charges up to four times faster than standard chargers

• suitable for devices with Qualcomm Snapdragon processors • optimal charging current for devices that meet the QC 3.0 standard overload and short circuit protection • 100 V to 240 V means it can also be used abroad

60 Retail Polybag

61 Retail Polybag



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