

FAQ

Why it is important to get UBS port charger with 2.4 A?

The power output level of a charger is measured in amps or watts. The higher power (2.4amps or 2.4A, 12watts or 12W) chargers are often required by modern phones and tablets in order to charge the device. Lesser powered USB chargers (1A or 5W) have been the standard for many years but they are only sufficient for charging smaller mobile devices. These 1A or 5W chargers do not meet the power requirements to charge tablets such as Apple iPad. Choose a 2.4A Laser charger to make sure you meet the charging requirements of the latest mobile devices.

What should I look for when buying a power charger?

There are 3 main types of chargers. These are wall, car and portable battery chargers. You should determine where you intend to use the charger to decide the type of charger to buy.

Other than the type of charger, you should consider the charging requirement of the mobile device. The power output level of a charger is measured in amps or watts. The higher power (2.4amps or 2.4A, 12watts or 12W) chargers are often required by modern phones and tablets in order to charge the device. Lesser powered USB chargers (1A or 5W) have been the standard for many years but they are only sufficient for charging smaller mobile devices. These 1A or 5W chargers do not meet the power requirements to charge tablets such as Apple iPad. Choose a 2.4A Laser charger to make sure you meet the charging requirements of the latest mobile devices.

Last but not least, always buy a device tested for electrical safety and approved to Australian Standards. Failure of electrical equipment is a common cause of house fires. All Laser products go through stringent testing to comply with Australian Standards.

What are the dangers of non-compliant products without electrical safety?

A device tested for electrical safety means it has been approved to Australian Standards. Such testing is very involved and includes every component of the product - from the outside casing through to each electronic component and cable inside. This is especially important for 240v products as exposure to such voltages can be extremely harmful in the event of a fault. Failure of electrical equipment is a common cause of house fires. All Laser products go through stringent testing to comply with Australian Standards.

How Power Output is delivered

The three most common values used when discussing electricity are; 1) Voltage or "V" (measured in volts), 2) Resistance or "r" (measured in Ohms) and 3) Current or "I" (measured in Amps)

When applying these terms to Consumer Electronics, we most commonly hear about them being applied around products like USB charging devices.

In this application most of us know USB runs on about 5.0 volts. Resistance, well, resistance is very rarely used and of little interest however when compared to current.

Current is very important as it describes the strength of the voltage or how fast it flows.

If you consider your garden hose as an analogy - voltage would be the width of the hose, the current would be how fast the water flows through it.

Eg. You can fill up a bucket of water faster when you turn the tap on faster.

When talking about wall plug USB chargers, built-in circuitry converts the 240 volts mains power down to 5 volts (for USB) and in varying currents or amps. Car chargers also do the same this, however they convert 12 volts down to 5 volts also with varying strengths. Early chargers only had fairly modest outputs of about 1.0 amp, however modern chargers can now output up to 2.4 amp which effectively can charge a device in almost half the time.

This 5 volt USB power can also be used not only charge your smart phone or tablet, but it can also be used to charge portable power storage devices called power banks. These power banks can also deliver varying amounts of current or amps however it is measured in a slightly different way, called Milliamp Hour or mAh for short. Eg if your smart phone has a 5,000mAh battery, you can get up to two full charges from a power bank that can hold up to 10,000mAh of power.