

Electronics FAQ

Q: What is mAh?

A: mAh or “Milliamp Hours” is a unit for measuring the amount of stored energy or capacity of a battery. The mAh rating on promotional Power Banks explains how much energy they can transfer to a recharging device like a cell phone. The higher the mAh of a Power Bank battery, the longer amount of time and/or energy it can provide to re-charge an electronic device like a cell phone.

Q: What are Volts and Amps?

A: Volts are the electrical pressure or strength of the current while Amps are the amount of electrical volume that moves through. Most promotional power banks, chargers and cables are rated for 5 Volts which is sufficient for their operation. Amps are more important because they effect the speed of charging. If you think of a water pipe – the size of the pipe is analogous to Amps. A smaller diameter pipe (lower Amps) will not push through as much water (electrical current) as fast as a wider diameter pipe (higher Amps). Typically the lower the number of outputted amps, the longer it will take for a product to be re-charged.

Q: What is Output and Input Current?

A: Output is characterized in Amps (explained above) and indicates the volume of power a charger is capable of delivering out to a device and how quickly. Input is characterized in Volts (also explained above) and relates to the power source coming into a promotional charger or power bank. Most promotional chargers operate on 5 Volts to work properly.

Q: What is Standby Time?

A: Standby Time is the amount of time a power bank will hold its charge when not in use. A 2200 mAh power bank will typically have xxx of Standby Time.

Q: What do I need to know about mAh, Volts and Amps as they relate to the electronic products typically sold in the promotional products market?

A1: **In relation to promotional power banks**, mAh explains how much power a power bank can transfer to a re-charging electronic device (like a cell phone), and Amps explain how fast the re-charging can occur. Higher mAh power banks provide a higher charge so you can re-charge a larger battery device, or provide more charging power to smaller battery devices. For example, the iPhone 6 has an 1800 mAh battery and the iPhone 6+ has a 2915 mAh battery so a promotional power bank with 2200 mAh could fully charge an iPhone 6 and partially charge an iPhone 6+.

Promotional power banks are typically rated 1 Amp. A cell phone is also typically rated 1 Amp, while tablets are often rated 2.1 Amps. Therefore, a 1 Amp promotional power bank will charge a cell phone at normal speed yet charge a tablet at a slower speed.

A2: In relation to promotional car and home plug in chargers and recharging cables, Volts and Amps are important (not mAh because batteries are not involved) because those measurements tell you what devices can be charged efficiently when using them. For example, most plug in (wall or car) chargers have an input of 5 Volts which is sufficient for charging cell phones and tablets. And, promotional chargers are typically rated 1 Amp so they efficiently charge cell phones, which are also rated 1 Amp), but slower when charging tablets, which are typically rated 2.1 Amps. Check the rating on your charging cables, if they can handle 2.1 Amps you can use them for efficiently charging cell phones and tablets.

Q: What are the Innovation Line's specifications (mAh, Amps, Volts, etc.) on it's line of electronic products?

A: Please see the accompanying Electronics Products Chart Below.

Q: What is UL (Underwriters Laboratories)?

A: UL is the premier global independent product safety company that has championed safe products for more than 120 years. Its nearly 11,000 professionals are guided by the UL mission to promote safe working and living environments for all people. UL uses research and standards to continually advance and meet ever-evolving safety needs. UL works with businesses, manufacturers, trade associations and international regulatory authorities to bring solutions to the complex global supply chain through a comprehensive portfolio of certification, testing, inspection, advisory and education services.