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We've all been away on a trip, whether for business or pleasure, and run out battery on our smartphone, tablet, laptop or camera, with not a power point in sight. This can vary from being a mild annoyance to a ruining the trip entirely. It's worthwhile, then, investing in the best power banks on the market, so you can top up your devices when needed. But is Maxoak (opens in new tab) the brand of power bank you should be going for? The answer to that question will largely depend on how many devices you need powered up, how quickly and how often. The short version is that Maxoak's power banks are more powerful, and charge more devices, than rival brands. That also, however, makes them more expensive, bulkier and heavier to carry. So before you decide whether to buy a Maxoak power banks, it's first worth considering what kind of power bank you're looking for overall. How much power do you need? The amount of juice a power bank can contain is measured in units of mAh (milliamp hour) which measures electric power over time. To give you a rough idea, 4,000mAh should be sufficient to fully charge a typical smartphone once. With that in mind, if you only want a power bank as an emergency backup on a day trip, to top up your smartphone once it gets low on battery, you'll probably be happy with a 2,500-3,000mAh power bank. If you were going away for the weekend and wanted to give it a full charge or two from zero, though, you'd want to go for a power bank that offered somewhere between 3,500mAh and 10,000mAh. Looking to charge more than one smartphone? Or the same one multiple times? Then you'll need to be looking at power banks that offer more than 10,000mAh. The Anker PowerCore 20100 power bank, (opens in new tab) for example, allows you to charge an iPhone 6, 7 or 8 around six times on one trip, or a Samsung Galaxy S6, 7, 8 or 9 around four times. Perhaps, though, you need even more power than that. Maybe you've got a lot of devices, including laptops, phones, cameras and/or tablets, that you'll need to keep topped up without being near a wall socket. Maybe you're out on a day-long photo shoot, attending a busy conference, or just on a holiday where you won't have electricity. For all these situations and more, Maxoak is the brand for you, because they pack in a serious amount of juice into their power banks. How much power do Maxoak power banks offer? The Maxoak AC10 power bank is a great choice for powering your MacBooks (Image credit: Maxoak) Maxoak's most powerful device, the Maxoak 50,000mAh power bank (opens in new tab) can store 50,000mAh. That means you could use it to charge an iPhone 6-8 about 16 times, or an iPhone X/8Plus/7Plus/6 Plus or Galaxy S6 about 11 times, on a single trip. It can also charge a range of laptops and cameras, up to 90W. The other two Maxoak power banks we'd recommend also offer an impressive amount of power. The Maxoak AC10 power bank (opens in new tab), which is aimed at MacBook users, provides 26,756mAh, which is enough to give a MacBook 12in at least two full charges, a MacBook Air 13.3in around 1.8-2 charges, a MacBook Pro 13.3in between 1.5 and 2 charges, and a MacBook Pro 15in at least one full charge. Finally, there's the Maxoak K3 36000mAh Power Bank (opens in new tab), which you can use to charge Apple Macbook computers, as well as other PD-C enabled devices such as laptops, tablets, smartphones, cameras, gimbals, and lights. Able to store 36000mAh, you could use it to charge a MacBook Pro 13in or MacBook Air 13in about 1.5 times, MacBook Air 11in or MacBook 12in (Type C) about 2.5 times, iPad Mini 4 about 5 times, iPhone 6s about 15 times, Samsung S16 about 10 times and HTC M9 about 8.5 times. How many devices can you charge at once? The Maxoak 50000mAh power bank has an impressive six charging ports (Image credit: Maxoak) Another way in which Maxoak power banks stand out is in how many devices you can charge at once. The Maxoak 50,000mAh power bank (opens in new tab) has an impressive six output ports for multi-port charging: a 20V/5A port for laptops, a 12V/2.5A port for cameras, and two 5V/2.1A ports and two 5V/1A ports which between them will cover most smartphones, tablets, as well as other USB-charged devices. You can use up to five of these simultaneously, which is particularly handy if you're on the road with someone who's forgotten, lost or broken their own charger; they can piggyback on yours without affecting your own device-charging. There's also a separate port for charging the power bank itself. Meanwhile, the Maxoak AC10 power bank (opens in new tab) and Maxoak K3 36000mAh power (opens in new tab) bank (opens in new tab) each have four ports in total, which is none too shabby. Specifically, this includes two USB ports for charging smartphones and tablets, a DC port for charging 16.8V/3.5A laptops, and a USB Type-C port for MacBooks and other USB-C devices. Are Maxoak power banks the best? The Maxoak 36000mAh power bank can charge a huge variety of devices, including Apple laptops (Image credit: Maxoak) As the previous examples suggest, Maxoak power banks are generally considered the best in terms of the amount of power they carry and the number of devices they can charge at once. But does that make them the best power banks overall? The most obvious way they compare unfavourably to rival models is portability. All that power comes at a cost when it comes to weight and size, and Maxoak power banks are generally bulkier and heavier than most. Don't be surprised then, if a Maxoak power bank weighs more than rivals, and even the laptop you are intending it to power. For instance, the Maxoak 50,000mAh power bank weighs 1.26kg and measures 20.6cm x 13.5cm x 3.3cm, which is significantly heavier than, say, the Anker PowerCore 20100 power bank's 0.35kg weight and 16.6 x 6.2 x 2.2mm size. Another negative against Maxoak power banks is price. At time of writing, the Maxoak 50,000mAh Power Bank costs £119.99, around four times the cost of the Anker PowerCore 20100 at £29.99. So in theory, you could get more power overall by buying multiple cheaper devices than one big one, although in practical terms, that would probably not be the most convenient option. On the whole then, if you want a very powerful power bank that you can use to charge multiple devices, it doesn't need to be super-light, and you can afford it, then Maxoak power banks are going to be your best choice. Which Maxoak power bank should you buy? Maxoak's 50,000mAh power bank comes with 14 different connectors (Image credit: Maxoak) As you may have already gathered, Maxoak's flagship power bank is the 50,000mAh power bank. It's big selling points are the 50,000mAh of power, six output ports including dedicated laptop and digital camera ports, and a short recharge time of around six to eight hours. It also features LED status lights and strong protection against power surges. The device comes with a home charger, a DC cable, a carry case, and 14 kinds of connectors to connect it to different laptops and notebooks. In all these respects, it's Maxoak's highest end device. So why wouldn't you buy it? There are two main reasons. Firstly, because you can't use it to charge any Apple laptop, a Surface Pro 4, or certain models of Lenovo Yoga and Dell XPS laptops. And secondly, because it's so powerful, you're not allowed to take it on a flight under TSA rules. If you do need a power bank for flying, you should instead investigate the Maxoak AC10 power bank, which you should be able to take on any passenger aircraft. By definition, that makes it less powerful than the 50,000mAh power bank, but not by much. Offering 26,756mAh, it claims to be the highest capacity TSA-approved AC outlet power bank, and can be used to charge a wide range of devices, including many MacBooks. If you're want a power bank for your Apple laptop, but aren't bothered about flying, then you should check out the more powerful MAXOAK 36000mAh USB-C Type C power bank, which allows you to charge laptops in the MacBook Series, MacBook Air or MacBook Pro series (45W & 60W), although note that it's not compatible with the 15in/17in MacBook Pro (85W). The features of the digital products are growing enormously which triggers the frequent usage of smart phones in several applications. Thus the battery backup time is getting decreased. It will be fun to build a Power Bank for Mobile Phone as spare charging source for emergency purpose which is also portable. In this article we will discover how to make a power bank with a super simple power bank circuit diagram. The important factor to be considered while working with lithium batteries is protection circuits and quality of batteries. But, when this comes to 18650 cells the risk factor is less compared with pouch batteries. Good protection is offered by few readymade modules available in market. Components required for Power Bank Circuit: 18650 Lithium cell TP4056 Module with battery protection circuit 3V to 5V boost converter with 1A current control Slide switch Power Bank Circuit Diagram: Below is the circuit diagram for our power bank. As we can see it's fairly easy to make a power bank with li-ion battery, TP4056 module and a boost converter. 18650 Lithium Cell: 18650 lithium cell is the important part of this power bank circuit. The term 18650 cell is due to the cell dimension, it is cylindrical in shape with 18mm diameter and height of 65mm. Also these cells are available in different capacities corresponding to applications. They are rechargeable cells with 3.7v output. The method of charging a single lithium ion cell requires two stage, Constant current (CC) Constant voltage (CV) During CC the charger should supply constant current with increasing voltage till the voltage limit. Next a voltage equal to maximum limit of cell should be applied during which the current declines steadily to the lower threshold current (i.e., 3% of constant current). All these operation is carried out by the TP4056 module which is highly reliable and affordable choice. TP4056A Module: This is a low cost charging solution to charge any type of single lithium ion battery. Mobile batteries, 18650 NMC cells, Lithium pouch batteries, etc. The micro B Receptacle and easy adjustable 1A output current control makes it reliable choice to charge any low capacity batteries. It can be connected to any wall socket based mobile charger or any sort of USB to micro B cable. It is made of an integrated PMOS load switch architecture, hence reducing overall additional components. The module also has two indications, Red color LED (L1) to indicate the ongoing charging condition. Blue color LED (L2) indicates the completion of charging. This module can operate at high ambient temperature since the thermal feedback can regulate the charge current. The charge voltage is 4.2V and current can be adjusted by changing a resistor in the module. But, the default current will be 1A when bought. The protection circuit includes, 1. DW01x - Single cell lithium ion battery protection IC with dual MOSFET control feature. Below is a application test circuit provided in the datasheet. 2. FS8205A - Dual N-Channel enhancement MOSFET with common drain connection. Also the drain to source resistance is low. The gate of the MOSFET is controlled through the DW01A IC. Thus, the DW01A provides Overcharge control, Over discharge control, Overcurrent control by controlling the MOSFET through the circuit. Micro USB 3V to 5V Boost Converter: Lithium battery is only providing 3.7 volt here but we need 5v to charge the Cellphone, so we have used 3v to 5v boost converter module here. This boost converter module has high efficiency of upto 92% and integrated over current protection. The topology used inside is Non-isolated step-up converter which operates at a switch frequency of 1MHz. The overall power output that can be drawn out of this module is 5W. The output voltage can be adjusted to 12V by changing a resistor in module but the maximum current will be 400mA. But by default this module is available at a rating of 5V, 1A. Under this rating the output ripple is 20mV pk-pk. The module also has USB type-A female receptacle which is universal. Any USB power cable can be used as interface. The operating temperature of the module is -40°C to +85°C. It also has an LED indication to indicate the presence of supply from battery source. The Red color Led indicates the presence of power supply across the terminals. We previously used the same module in Solar Mobile Phone Charger Circuit. The modules were connected and fixed to a plastic plate using hot glue. Charging the Power Bank Circuit: Red color LED indicates the battery charging in this power bank circuit, Blue color LED indicates the charge complete, Charging the Mobile Phone with this Power Bank: 1. Connect the USB to micro B cable to the output of boost converter. 2. Turn the slide switch ON. 3. The mobile phones battery starts to get charge from the power bank So this is how you can easily make Power Bank Circuit for charging your Smart Phones. Below you can find the video which demonstrates how to build 18650 Lithium Cell based power bank circuit.





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