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Connie ParkThis compact, lightweight charger supports wireless charging and has easy-to-read screen. It's not as powerful as some others we tested, and it doesn't come with a wall charger, but it charges a wide variety of devices. The Omnicache Omni 20+ is one of very few available options with wireless charging, as well as a screen showing helpful information like input/output power and operating temperature. It is pricey and has less capacity and output power than our other picks, but it's your best bet if you want these features. It can charge your phone wirelessly. This unit also has a Qi wireless-charging feature (though it's not certified by the Wireless Power Consortium, which we'd prefer for confirmation of safety and optimal performance) that you can use to charge some phones and other devices. It's exceptionally compact and lightweight. The Omnicache is about the size of a bagel or Kaiser roll. It has a square shape with gently rounded corners that make it easier to hold or to stuff into a bag. And at 1.4 pounds, it's the lightest of our picks. It has well-spaced ports. The ports on this unit are widely spaced, leaving ample room for multiple plugs. There is an AC outlet on one side, and USB-C PD and DC input/output ports on another. On a third side, you'll find two USB-A output ports, an OLED display screen, and control buttons to toggle various ports on and off. It has a spacious, professional look. The outer shell is made of a soft-textured plastic that's grippy but comfortable to hold, and it seems unlikely to scratch and scuff easily. After you unbundle it from its white, its surface is likely to gain some fingerprints, however. Its screen is bright and clear, and it sometimes goes dark. When you're recharging the unit, it displays a battery icon to show how much charge is left. You can use the unit without a cable, but it's more useful when you have a cable plugged in. The unit has a small screen that shows the current voltage output. The display can get cluttered, so having a screen that can be turned off is handy. The Omnicache has a single USB-C port, but sufficient for most needs. In our testing, the Omnicache topped out at 98 W of power output—less than our other picks, but still plenty of power to charge most laptops while they're in use. It brought our MacBook Air from no charge to 80% charged, which was less than our other picks managed, but not by much. It comes with cables, but not a wall charger. The Omnicache comes with both USB-A and USB-C cables, but you'll need to supply your own wall charger. Since most laptops are powered by a USB-C or DC wall charger, you might already have one on hand that's compatible with this unit. If you don't already have a suitable charger, Omnicache sells one separately that we've used and like enough to recommend. It comes with a 3-foot charging cable, has two USB-C PD ports and a USB-A port, and can supply up to 65 W to a single device or 60 W split between multiple devices. It's also compact, lightweight, and has a convenient fold-up plug (though you can typically get one of our favorite wall chargers for less). Its ports aren't protected. We wish this unit came with a rubber flap over its ports to protect its internal components against dust and minor spills, as several other models we've tested do. For added peace of mind, Omnicache sells a clamshell-style case that we've packed on numerous weekend trips and workstations to protect the unit from scuffs and scratches. Product support is solid. Its one-year warranty isn't as long as that of our top pick, but we still think the coverage is long enough for you to fully test the charger and confirm that it doesn't have a problem. Customer service is responsive, too. It's not cheap. At this writing, the Omnicache is our most expensive pick.

For professionals and students: However, one of the biggest challenges of using a laptop on the go is keeping it charged. This is where portable chargers come in. But can any portable charger charge a laptop? Understanding Portable Chargers and Laptops Before we dive into the world of portable chargers and laptops, it's essential to understand how they work and what they require to function. Portable chargers, also known as power banks, are devices that store electrical energy in a battery and can be used to charge other devices on the go. They come in various sizes, capacities, and types, but most of them use lithium-ion batteries. Laptops, on the other hand, are complex devices that require a significant amount of power to function. They have large screens, processors, and memory, which consume a lot of energy. To charge a laptop, you need a power source that can provide a high voltage and current output. What Do Laptops Require to Charge? To charge a laptop, you need a power source that can provide the following: A high voltage output: Most laptops require a voltage output of 12V, 15V, 16V, 18V, 19V, or 20V to charge. A high current output: Laptops require a current output of at least 2A, but some may require up to 5A or more. A high voltage output: The wattage output required to charge a laptop depends on the device's power consumption, but most laptops require at least 30W, 45W, 60W, or 85W. Types of Laptop Chargers There are several types of laptop chargers available, including: Standard laptop chargers: These are the traditional chargers that come with laptops and provide a fixed voltage and current output. Universal laptop chargers: These chargers can be used with multiple laptops and provide adjustable voltage and current output. Portable laptop chargers: These are compact and lightweight chargers that can be used to charge laptops on the go. Can Any Portable Charger Charge a Laptop? Now that we understand what laptops require to charge, let's answer the question: can any portable charger charge a laptop? The short answer is no, not all portable chargers can charge a laptop. To determine if a portable charger can charge a laptop, you need to check the following: Voltage: The portable charger must be able to provide a high voltage output that meets the laptop's requirements. Most portable chargers are designed to charge small devices like smartphones and tablets, and they may not have the necessary voltage, current, and wattage output to charge a laptop. Capacity: The portable charger must have enough capacity to charge the laptop. High-capacity chargers can store more energy and charge your laptop for longer. High-voltage output: Make sure the portable charger can provide a high voltage output that matches your laptop's requirements. High-current output: Ensure the portable charger can provide a high current output that meets your laptop's requirements. High-wattage output: Check that the portable charger can provide a high wattage output that meets your laptop's requirements. Multiple USB ports: Look for a portable charger with multiple USB ports, so you can charge your laptop and other devices at the same time. Compact and lightweight: Choose a portable charger that is compact and lightweight, making it easy to carry around. Examples of Portable Chargers for Laptops Here are some examples of portable chargers that can charge laptops: Anker PowerCore Fusion: This portable charger has a high capacity of 20,100mAh and can provide a high voltage output of 20V, making it suitable for charging laptops. Mophie Powerstation AC: This portable charger has a high capacity of 22,000mAh and can provide a high voltage output of 20V, making it suitable for charging laptops. Jackery Titan S: This portable charger has a high capacity of 20,800mAh and can provide a high voltage output of 20V, making it suitable for charging laptops. Conclusion In conclusion, not all portable chargers can charge a laptop. To determine if a portable charger can charge a laptop, you need to check the following: Voltage, Capacity, High-voltage output, High-current output, High-wattage output, Multiple USB ports, Compact and lightweight. What to Look for in a Portable Charger for Laptops If you're looking for a portable charger that can charge your laptop, here are some key things to look for: High capacity: Look for a portable charger with a high capacity, measured in milliampere-hours (mAh). A higher capacity means the charger can store more energy and charge your laptop for longer. High voltage output: Make sure the portable charger can provide a high voltage output that matches your laptop's requirements. High current output: Ensure the portable charger can provide a high current output that meets your laptop's requirements. 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undpowered charger can put stress on both the charger and the laptop's battery. It may lead to inefficiencies and potential risks, including overheating the phone charger, which could cause damage over time. What are the risks of using an incompatible charger? Using an incompatible charger can lead to several risks, the most serious of which is damage to your laptop's charging circuitry and battery. A charger that delivers incorrect voltage or current can cause overheating, which may result in a short circuit or failure of internal components. In some cases, it could even pose a fire hazard. Incompatible chargers can also impact the longevity of your device. Continuous use of a faulty charger can lead to premature battery degradation, reducing the time between charges. To avoid these risks, always use the charger that came with your laptop or a certified replacement. Laptop manufacturers provide specifications for the voltage (V) and amperage (A) ratings, which are usually indicated on the charger itself or on the laptop's power port. These specifications must match up to ensure safe and effective charging. Additionally, consider the connector type. Chargers have different ports, and using a charger with an incompatible plug can physically damage your laptop's charging port. If you're purchasing a replacement, use either the original charger or a certified alternative specifically designed for your laptop model. Can I charge my laptop overnight with a different charger? Charging your laptop overnight with a different charger is generally not recommended unless it is a compatible charger designed for your laptop specifications. If the voltage or amperage differs significantly from what your laptop needs, it could lead to overcharging or overheating, potentially resulting in damage to the battery or laptop itself. Even if the charger appears to fit and provides some level of charging, prolonged use of an incompatible charger can degrade the battery's health and overall performance. It's always safer to use the manufacturer-approved charger, especially for extended charging sessions like overnight charging. What should I do if I can't find the original charger? If you can't find the original charger for your laptop, your best option is to look for a certified replacement that matches your laptop's specifications. You can purchase chargers from reputable electronics stores, online marketplaces, or directly from the manufacturer. Ensure you verify the voltage and amperage before making your purchase. Alternatively, check with your laptop manufacturer for recommendations on compatible chargers or look for universal chargers that include adjustable voltage settings, ensuring they meet your laptop's specific charging requirements. Remember, always prioritize safety when selecting a replacement charger. The power bank option is a viable alternative. Make sure the power bank's output voltage and current match your laptop's requirements. Look for power banks with high ratings on Amazon.com for working with Dell, HP, Lenovo Surface Pro, Sony, Samsung, Acer, and Toshiba notebooks.[1] For an Apple laptop, check out the Mophie Powerstation.[2] Charge your power bank fully before leaving. If your laptop runs out of battery power when you're on the go, you'll want your power bank to be fully charged. If you don't know how to charge a power bank, you can check out How to Charge a Power Bank for more information. Advertisement 3 Connect the power bank to your laptop. Many power banks connect to your computer with a USB-C cable and port, but you can find others like USB-A or Lightning ports.[3] 4 Turn on your power bank (if you need to). According to your power bank's make and model, you might have to press a button or turn a switch for the power bank to start charging your computer.[4] You should see the battery charging symbol in the tray of your laptop screen. On Windows, this looks like the battery icon next to a three-prong plug as the icon is filling up with white. On a Mac, you'll see a lightning bolt inside the battery icon. Advertisement 1 Work on one program at a time. You may have gotten accustomed to multi-tasking, but the more programs you have open and running, the faster your battery is used. If you're using Windows 8 or 10, make sure you look in your taskbar for programs that are running in the background, like Google Drive (or any of those other syncing services) or a gaming launcher (like Origin Games). 2 Use less memory. Similar to the previous step to saving battery power, like closing unnecessary open programs, you need to use less memory-intensive programs to save battery life. For example, if you need to write a document, you might want to use a word processor like Microsoft Word or Google Docs instead of a more memory-intensive program like Adobe Photoshop. Advertisement 2 Turn off unnecessary programs. You can also turn off unnecessary programs like background apps or services. Advertisement 3 Turn off unnecessary programs. You can also turn off unnecessary programs like background apps or services. Advertisement 4 Turn off unnecessary programs. You can also turn off unnecessary programs like background apps or services. Advertisement 5 Turn off unnecessary programs. You can also turn off unnecessary programs like background apps or services. Advertisement 6 Turn off unnecessary programs. You can also turn off unnecessary programs like background apps or services. Advertisement 7 Turn off unnecessary programs. You can also turn off unnecessary programs like background apps or services. Advertisement 8 Turn off unnecessary programs. 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