# Can a battery with an output current of 5A be used

Can a 5V 5A power supply be used as a charger?
You can make a charger that keeps VBUS=5V and source up to 5A, but no legacy (and legal) devices will make use of this power. The goal is to build a 5V 5A power supply that will be able to supply the maximum of 25W to a device.

Is 5V 5A battery charging legal with USB?
Is 5V 5A Battery Charging legal with USB and how to signal it? According to the USB Battery Charging v1.2 Spec a Dedicated Charging Port (DCP) shall output an average voltage of 4.75V to 5.25V at a current of 0.5A to 5A. So if I'm reading this correctly,supplying 5V at 5A should be perfectly finefor a DCP.

How much current can a portable device draw at 5V?
However the USB spec suggests that a portable device should not draw more than 1.5Aat 5V (Allowed PD Current Draw from Charging Port in Table 5-2 of the spec). So which one is it? I specifically don't want to implement a smart USB supply at this point,able to supply several different voltages between 5V and 20V.

Can I use an AC adapter with a 5V 1A device?
As long as the voltage matches that expected by the connected device,then yes,you can use an AC adapter capable of providing higher amps. Can I use a 5V 2A charger with a 5V 1A device?

Can I use a 5V 1A charger with 5V 2A?
Yes. Because a) the voltage matches,and b) the amperage provided is greater than that needed,you can use a 5v-2A charger with a 5V-1A device. Is 500ma the same as 0.5 A? Yes. 500ma (or milliamps) is the same as one half,or 0.5,amps. A milliamp is just 1/1000th of an amp,meaning that there are 1000 milliamps to an amp.

Is it bad to charge a lithium ion battery at 0.5A?
If it exceeds 0.5A,that's probably bad for the power supply. That's not the way it works... What battery? What charger? what's the context? Yes,in that case it's better to charge at 0.5A. Lithium ion batteries really don't like getting hot.

This will all be powered by an ExpertPower 12v 8ah sealed lead acid battery, however I do not know if it can handle the load that I will put on it. ... for constant current discharge, down to a cell voltage of 1.75v (more of that later!) current period capacity 0.4A 20Hr 8.0Ah 4.8A 1Hr 4.8Ah 16.5A 10min 2.8Ah so there''s quite a capacity penalty ...

A battery can supply power based on its specifications. Most batteries offer a continuous power rating of 5 to 8 kilowatts. This capability allows them to power several ...

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$begingroup$ You should look in the datasheet of that AA battery and check the discharge curves. That gives you an indication.Note that the highest discharge ...

$begingroup$ It is usually okay to have a supply which can output more current than devices expect, but some kinds of devices are only suitable for devices which have current limits. If a typical 0.25A fuse is fed by a supply that will current limit at 10A, for example, and its output is shorted, the fuse will interrupt the current.

A 12vdc lead acid car battery can supply a lot more continuous current then a much smaller 12 volt battery. Small 9 volt batteries are designed to power smoke alarms for a couple of years but won"t supply 150ma for even a ...

Depends on the battery chemistry. For lithium ion, it"s usually not a problem and can even be a benefit. For NiMH, a charging current that is too low can make it dificult for the charger to detect the point where the battery is full, which can lead to overcharging and overheating the battery.

Whereas the Makita BL1850B 5 Amp/hr battery uses the Sony Murata VTC5 cells or the Samsung equivalent has an output 20 amps per bank or 40 amps total, so under heavy loads the BL1850B battery can deliver far more current than the BL1860B battery and not get as hot in the process, but for a shorter run time.

But it can only supply about 1A of current. Put the 2N3055; This method might solve the problem. The output current of 7805 flows to a base of 2N3055. It will allow a much ...

The Victron Energy Orion-Tr non-isolated DC-DC converter is a compact, high efficiency (>95% at full load) converter for reducing the voltage from a 24V battery source to a nominal 12V output. This is useful if your vehicle has a 24V starter ...

This laptop adapter supplies an output voltage of 19 V and a maximum output current of 3.42 A, well above your original adapter"s 2A maximum. This doesn"t mean your device will consume 3.42 A when its powered with this adapter; it ...

How Many Amps Are in a 12-Volt Car Battery? A 12-volt car battery typically has an amperage rating between 40 and 80 amps. However, some high-performance car batteries can have an amperage rating of up to 1000 amps. The amperage ...

As a rule of thumb small li-ion or li-poly batteries can be charged and discharged at around 1C. "C" is a unit of measure for current equal to the cell capacity divided by one hour; so for a 200mAh battery, 1C is 200mA. ...

As shown in the schematic, R4 sets the charging current. As the battery voltage nears fully charged, current will decrease. If you adjust potentiometer R2 so that the output voltage is 13.6v-13.7v at room temp

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(25°C/77°F), you ...

Maximum discharge current : 1C. That means that it is rated to provide 250mA of current. As always, voltage can be raised by putting cells in series (but watch out for balancing issues), and current can be raised by putting cells in parallel. If both must be raised then a full array of cells must be used.

The input takes (up to) 1.5A, the output gives (up to) 3.65A. The power supply trades higher input voltage for higher output current. 1.5A is probably very much a peak inrush value when you first connect the power supply to the wall and the capacitors charge, the output is only about 60W but the lower of the input range is more than double that.

Input Voltage Range: 4-38V Output Voltage Range: 25-36V continuously adjustable Output current: adjustable, up to 5A Output power: up to 75W Working temperature :-40 ~ + 85 ...

Web: https://batteryhqcenturion.co.za