

How much power can a 5 0 lithium battery bring

Does a 5.0ah battery have more power?

So in addition to having double the cells, the 5.0Ah battery also has a higher energy density in each one. In general, higher amp hours mean more runtime and higher voltage means more power. Read more about the relationship between voltage and amp-hours. [Do Battery Amp Hours Affect Power?](#)

How long does a 5.0ah battery take?

The 5.0Ah battery took 10.28 seconds while the 2.0Ah pack needed 12.08 seconds. The last test we ran was with a 2 9/16-inch Switchblade, calling on a much greater level of power from the drill. Here again, the 5.0Ah battery showed its ability to deliver higher power to finish the task, taking 11.26 seconds compared to the 2.0Ah's 14.60 seconds.

How does a 5.0ah battery work?

The 5.0Ah pack uses two rows of battery cells attached to each other with a parallel connection. That keeps the voltage at 18 but doubles the amp hours to 5.0. But there's more to the story. You see, the 5.0Ah pack actually has more than double the amp hours of the 2.0Ah battery. That's because they're using different cells.

How many amps does a battery need?

At 18V, the batteries each need to deliver 20 amps of current to make it happen ($18V \times 20A = 360W$). Each cell in the series has to contribute the full current since it isn't additive between series connections. The 5 cells in the 2.0Ah pack each need to deliver 20 amps.

How much power does a battery pack give a drill?

It stands to reason that if both battery packs deliver 18 volts, it shouldn't affect the power, just the runtime. A closer look at the pack design offers some insight. Power is measured in watts and you can calculate it by multiplying volts and amps. The drill really is asking for 18V from both batteries, so that remains constant.

How long does a '4' Battery last?

The '4' will last 60% longer than the 2.5. However, most of the weight also comes from those same cells, so it probably weighs 50+% more. I'm going to GUESS based on my experience with other tools and batteries, and glancing at Ego's estimates for power draw... you're looking at a practical difference of about 30 minutes of use vs 45 minutes.

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than lead-acid battery on the market, but also provides 3 times higher energy density. ... For example, the ...

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The 5.0 Ah rating indicates how much current (5A) the battery can deliver for 1 hour before being depleted. Actual runtime depends on the device's power demands.

I would go with the bigger battery as the blower will drain that 2.5 really fast. I have an old blower so have to use turbo a lot to get things cleared off in a reasonable amount of time. The 530 cfm ...

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