

# Battery portable solar panel factorio





## Overview

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How to charge personal batteries in Factorio?

This article teaches you how to charge these Personal Batteries in Factorio. There are two ways of charging Personal Batteries in Factorio; either you can equip Portable Solar Panels on your armor which provide 30kW of power output per panel or you can equip Portable Fusion Reactors which provide 750kW per reactor.

Does a portable fusion reactor need batteries?

Reading this, just made me realize that the portable fusion reactor looks like Mr Fusion from Back to the Future . No, personal fusion doesn't need batteries or panels - but a couple of mk2 batteries are very helpful for both construction and attack runs to keep your roboports or lasers+legs running full speed, at least for a few minutes.

Should I use a fusion reactor or a solar panel?

Since a solar panel only occupies a 1x1 space you can still stick whatever panels you have in any leftover 1x1 spaces, but any space bigger than that is more usefully occupied by something else. And if you need more power than a single fusion reactor can provide, you are better off using two reactors than combining a reactor with panels.

What are portable solar panels?

Portable solar panels are the basic power generating units for modular armor and the spidertron. They provide only a small amount of power, and only during the daytime.

Can portable solar panels be used in armor?

Portable solar panels are 1x1 in size and are therefore primarily used in modular armor, which has a 5x5 grid that cannot usefully hold a much more powerful 4x4 portable fusion reactor. (It could store one, but there would be



no room for anything to use the power.) The more advanced armors should almost always use portable fusion reactors instead.

How did portable solar panels increase power output?

Portable solar panel power output changed from 10kW to 30kW, recipe tweaked to require less Solar panels but more Advanced circuits. Power production increased by a factor of 10. Power production increased by a factor of 100. **Portable solar panels** are the basic power generating units for modular armor and the spidertron.



## Battery portable solar panel factorio

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[Why wont portable solar charge one battery? : r/factorio](#)

Portable solar is extremely slow. You have to sit there for ages for it to do anything. There is an upgraded version of the solar plates but you're really best to work towards the reactor.

### Portable solar panel to personal battery ratio? : r/factorio

So under these circumstances, you need a higher ratio of power storage to solar panels than your base does. But the exact ratio is not something you can calculate, it depends ...



### Modular armor, solar panels & personal roboport possible

Batteries will drain very quickly if the shield or roboport is used and will take a long time to recharge on solar power, but it's certainly possible (and useful) to have this basic ...

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[Personal battery and portable fusion reactor : r/factorio](#)

You need batteries with solar panels in your equipment grid, but batteries help with fusion reactors as well. One fusion reactor provides 750kW of energy (in a 4x4 space), the ...

### portable solar panels

Finally I'd like to point out that 10 PSPs requires 1 stack of normal solar panels, even though the panels are ultimately discarded the cost of producing them is a pittance for ...



[\[1.1.61\] Portable solar panels do not respect surface](#)

Space Exploration doesn't use solar multipliers higher than ~16, so setting the buffer size to ~30x would solve this problem for pretty much everyone. I doubt anyone would ...

[Personal battery not charging? : r/factorio](#)

When you have low production, invest in several batteries. One panel makes 30kW, 4 should make 120kW. Nightvision consumes 10kW and stores 120kJ - it should have ...



[Does a portable fusion reactor need a personal ...](#)

No, personal fusion doesn't need batteries or panels - but a couple of mk2 batteries are very helpful for both construction and attack runs to keep your roboports or lasers+legs running full speed, at least for a few minutes.



[Personal battery and portable fusion reactor : r/factorio](#)

You need batteries with solar panels in your equipment grid, but batteries help with fusion reactors as well. One fusion reactor provides 750kW of energy (in a 4x4 space), the equivalent of 25 ...



[How to Charge Personal Batteries in Factorio \(Easy Guide\)](#)

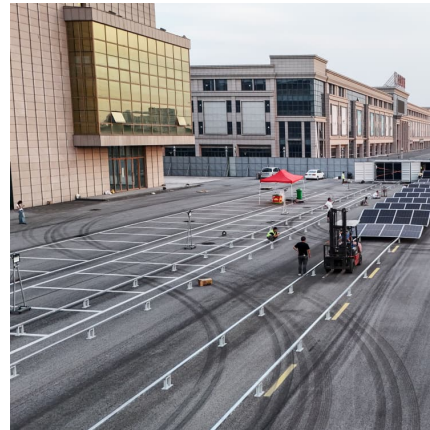
There are two ways of charging Personal Batteries in Factorio; either you can equip Portable Solar Panels on your armor which provide 30kW of power output per panel or you can equip ...





### Portable solar panel to personal battery ratio? : r/factorio

So under these circumstances, you need a higher ratio of power storage to solar panels than your base does. But the exact ratio is not something you can calculate, it depends on personal ...



### Does a portable fusion reactor need a personal battery (mk2) or solar

No, personal fusion doesn't need batteries or panels - but a couple of mk2 batteries are very helpful for both construction and attack runs to keep your roboports or ...

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