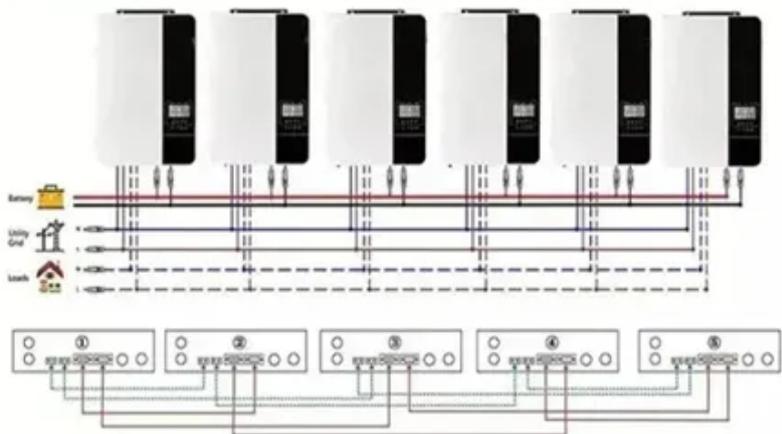


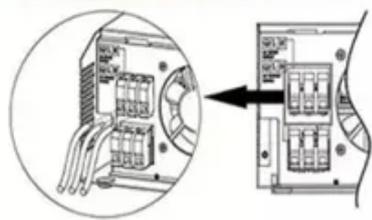


Switzerland battery life

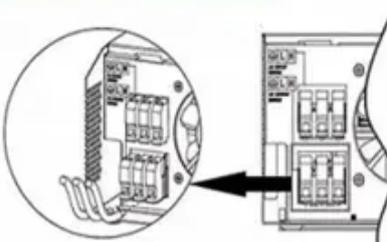
Parallel (Parallel operation up to 6 unit (only with battery connected))



AC input wires



AC output wires





Overview

Superior performance: Compared to traditional lithium-ion batteries that last 3-10 years, crystal batteries operate continuously for hundreds of years with sealed, safe designs that eliminate fire risks and thermal runaway dangers. At the Swiss Battery Technology Center (SBTC), we tackle this challenge by researching the sustainability of electrification. Stock image of car batteries at a factory in China. Getty Images Researchers at the Paul Scherrer Institute (PSI) in Switzerland have taken a significant. The Technology Outlook 2025 shows how innovative battery technologies are advancing the energy transition and what role Swiss innovations are playing in this. This groundbreaking innovation could transform global energy infrastructure by. "The Swiss CircuBAT program aims to optimize the lifecycle of batteries to reduce their ecological footprint and enhance the sustainability of electric mobility" In Switzerland, the CircuBAT program - supported by the federal government - aims to reduce the environmental impact of lithium-ion. Led by CEO Moritz Futscher, BTRY has developed ultra-thin, solid-state batteries that charge in just one minute.



Switzerland battery life

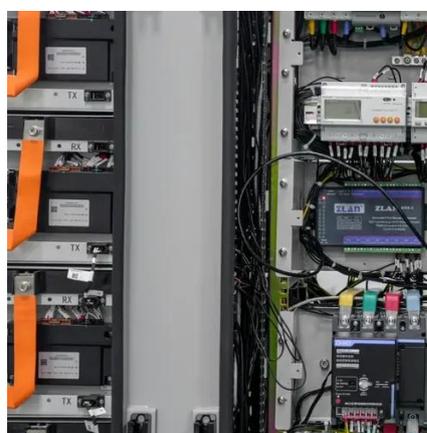


[Switzerland's Crystal Battery Powers Earth For Centuries](#)

Switzerland has developed a revolutionary crystal battery technology that utilizes synthetic radioactive crystals to generate continuous electricity for hundreds of years without ...

[NextIn Business: Rethinking Energy Storage](#)

In an episode of "NextIn Business," supported by Deep Tech Nation Switzerland and the Gebert Rűf Stiftung, Swiss deep tech startups demonstrate how they are "reinventing" the battery to ...



[The future of electromobility: Swiss pioneers develop the next](#)

The challenge for Swiss industry and politics is to utilise existing strengths and improve scalability at the same time. Precision manufacturing technology, software expertise and innovative ...

[Swiss Battery Technology Center - We commit ourselves to smart ...](#)

Through applied research, we show how batteries can efficiently be disassembled and their core materials reused. Our final goal is to enable the highest recycling rate of the entire battery as ...



[New solid-state battery retains 75% capacity after 1,500 cycles](#)

Researchers at the Paul Scherrer Institute (PSI) in Switzerland have taken a significant step toward making lithium-metal all-solid-state batteries commercially viable.



[On the way to mass production of the super battery](#)

With a range of over 1,000 kilometres, short charging times and a service life of up to 500,000 kilometres, lithium-ion batteries with solid electrolytes promise to usher in a new era.



Swiss News

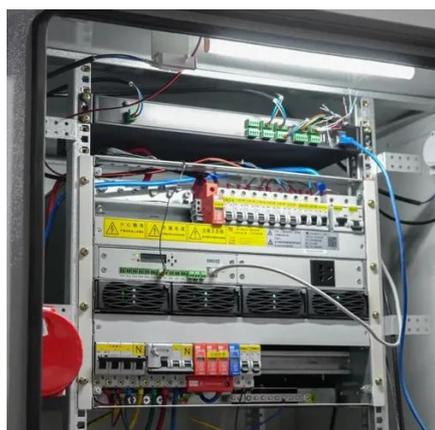
Switzerland is also stepping up with a groundbreaking solution for the estimated 15,000 tons of EV batteries that will reach end-of-life in the country annually by 2040.



[Driving Sustainable Innovation: How Switzerland Innovation Park Biel](#)



In the Battery De-Manufacturing Lab, we research solutions for the automatic dismantling of EV batteries. Meanwhile, the Battery Testing Lab offers insights into battery aging processes, SoC ...



["The Swiss CircuBAT program aims to optimize the lifecycle of ..."](#)

We're exploring and developing ways to create a closed cycle in which batteries are used for as long as possible in their first life, then either repurposed or recycled more efficiently.

[Western Switzerland at the forefront of the battery technologies](#)

Battery technology is at the center of Western Switzerland's energy challenges. The Swiss Battery Technology Center develops solutions to reduce the carbon footprint and improve the life cycle of the ...





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