

SolarTech Power Solutions

Vanadium Battery Site Cabinet Container Base Station



Overview

What is a residential vanadium battery?

Residential vanadium batteries are the missing link in the solar energy equation, finally enabling solar power to roll out on a massive scale thanks to their longevity and reliability. Residential vanadium flow batteries can also be used to collect energy from a traditional electrical grid.

What is modularity energy storage?

Modularity is at the core of Invinity's energy storage systems. Self-contained and incredibly easy to deploy, they use proven vanadium redox flow technology to store energy in an aqueous solution that never degrades, even under continuous maximum power and depth of discharge cycling.

How long does a vanadium flow battery last?

In fact, a single VFB will deliver 3x the lifetime throughput of a comparably-sized lithium battery. Learn how vanadium flow battery (VFB) systems provide safe, dependable and economic energy storage over 25 years with no degradation.

What is a vanadium redox flow battery (VRFB)?

The Vanadium Redox Flow Battery (VRFB) stands for a progressive and innovative flow battery technology. Different oxidation states of dissolved vanadium ions in the electrolyte store or deliver electric energy. The electrolyte is continuously fed from a tank system into the reaction cell (also called Stack).

What is vanadium redox flow technology?

Self-contained and incredibly easy to deploy, they use proven vanadium redox flow technology to store energy in an aqueous solution that never degrades, even under continuous maximum power and depth of discharge cycling. Our technology is non-flammable, and requires little maintenance and upkeep.

How safe is a vanadium electrolyte?

The safe and stable chemistry of the vanadium electrolyte has a far lower risk profile than other battery storage technologies. Invinity's batteries deliver 20,000+ deep discharge cycles over their lifespan, without the degradation and need for augmentation found in lithium batteries.

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