

## Espay Solar Energy S.L.

# Canada Vanadium Flow Battery

50KW modular power converter



#### Flexible Configuration

- Modular Design, Expanding as Required
- Small&Light, Wall Mounted
- Installed in Parallel for Expansion



#### Powerful Function

- Support PV+ESS
- Grid Support, Equipped with SVG Technology
- On-Grid and Off-Grid Operation



#### Reliable Protection

- Outdoor IP65 Design
- Sufficient Protection Functions Equipped



## Overview

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Workers install solar panels at the Chappice Lake Solar+Storage Project north of Medicine Hat. It is the only vanadium flow battery deployed at scale in Canada, with a storage capacity of 8. Invinity Energy Systems is pleased to announce that the Company's Canadian partner Elemental Energy has officially commenced operation of its 8. (Photo courtesy Invinity Energy. Invinity Energy Systems recently hosted British Columbia and Vancouver elected officials, along with business and industrial leaders, at their Vancouver facility as part of New Economy Canada's 'Getting Things Built' tour. government and more than \$205 million from Ottawa. Located in one of the sunniest.

## Canada Vanadium Flow Battery

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### GRADE A BATTERY

LiFePO<sub>4</sub> battery will not burn when overcharged or over discharged, overcurrent or short circuited and can withstand high temperatures without decomposition.



### B.C. cleantech at crossroads as battery sector ...

Invinity Energy Systems, for example, built a new manufacturing ...

### Canada's largest solar-powered vanadium flow battery / Invinity

Elemental Energy and Invinity Energy Systems have announced one of Canada's most innovative and ambitious renewable energy projects, in which approximately 40,000 solar panels are ...

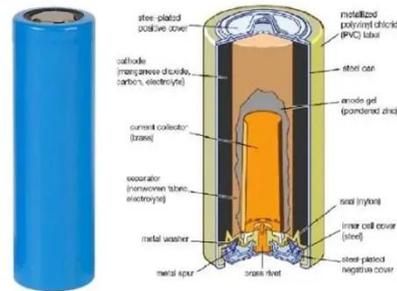


### Invinity Showcases Vanadium Flow Batteries to Canadian Officials

Invinity Energy Systems specializes in vanadium flow batteries for large-scale energy storage. Invinity hosted officials to showcase their batteries' role in Canada's clean energy growth.

### Invinity Showcases Vanadium Flow Batteries to Canadian Officials

The event highlighted the role of Invinity's vanadium flow batteries in supporting British Columbia's economy, diversifying export markets, and creating local jobs.



 **TAX FREE** 

**Product Model**  
 HJ-ESS-215A(100KW/215KWh)  
 HJ-ESS-115A(50KW/115KWh)

**Dimensions**  
 1600\*1280\*2200mm  
 1600\*1200\*2000mm

**Rated Battery Capacity**  
 215KWH/115KWH

**Battery Cooling Method**  
 Air Cooled/Liquid Cooled

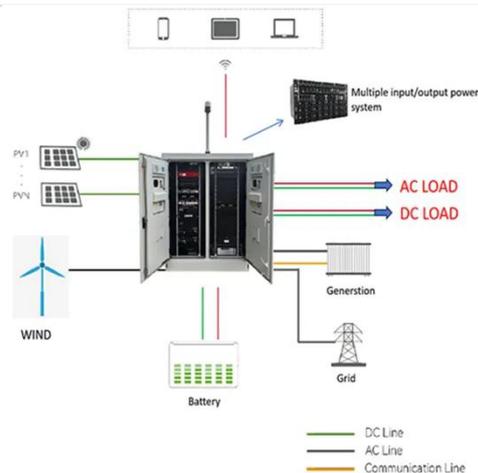


### Canada Vanadium Flow Batteries Market: Changing Consumer

The Canada vanadium flow batteries market is positioned at a pivotal juncture, driven by the increasing demand for sustainable energy storage solutions.

### VanadiumCorp Resource Inc.

Operating in the Nord du Québec and southern townships in the Province of Québec, VanadiumCorp aims to seed local vanadium flow battery manufacturing and deployment that will augment lithium-ion ...



### B.C. cleantech at crossroads as battery sector struggles

Invinity Energy Systems, for example, built a new manufacturing facility in Vancouver a year and a half ago. The company makes vanadium flow batteries



used for utility-scale storage.

#### APPLICATION SCENARIOS

### Invinity expands Vancouver vanadium flow battery plant ...

Vanadium redox flow battery firm Invinity Energy Systems has expanded its manufacturing facility in Vancouver to 200MWh of annual capacity.



### In renewables storage, an old technology finds a new home , Canada...

This is the technology behind the all-vanadium redox flow battery at Chappice Lake. It can store 8.4 megawatt hours (MWh) of solar power, and is the only vanadium flow battery deployed at ...

### Invinity to deploy vanadium flow battery at solar-plus ...

Invinity Energy Systems will supply vanadium redox flow battery (VRFB)

technology to a solar-plus-storage project in Alberta, Canada.



### **8.4 MWh Invinity Battery Goes Live in Canadian First**

Invinity Energy Systems is pleased to announce that the Company's Canadian partner Elemental Energy has officially commenced operation of its 8.4 MWh Invinity VS3 vanadium flow ...

## **Contact Us**

For catalog requests, pricing, or partnerships, please visit:  
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