

2/21/2024



Salgenx

salgenx-saltwater-flow-battery-grid-scale-energy-shop

Salgenx Store

+1 608-238-6001 (Chicago [TEL]
greg@salgenx.com [Email]



This webpage QR code

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Salgenx Store

PDF Version of the webpage (first pages)

Salgenx Experimental Saltwater Battery Cell Demo Cart

This hi-tech experimental cart is for those who wish to develop, test, prove, or show flow battery cell technology.

Front Side of Cart: provides two large flatscreens which are driven by a Filemaker database which captures data from a wide array of sensors, video cameras, and FLIR to help collect and interpret data from your concept to help raise the TRL to deployment. The entire system is computer controlled and can be monitored or controlled by a iOS device or Mac/Windows computer.

Some Application Experiments (configured by buyer who must acquire additional parts and materials):

- Saltwater flow battery (one cell)
- Desalination
- Making Graphene
- Cogeneration (thermal storage and heat pump applications)
- Lithium Extraction Process (adsorption using off-the-shelf resins)
- Magnetohydrodynamic Drive in Saltwater Flow Batteries for In-Situ Flow Enhancement

Back Side of Cart: the mechanics of the cell and flow system are available for configuration and sensors. This allows your team of lead scientists to work together with the mechanical crew simultaneously to get your experiments started quickly. Using our modular blocks (NSF termed Industrial Legos), multi-channel flows can simultaneously be configured to save time, space, and plumbing.

The entire cart is compact enough to fit through any standard USA hallway, elevator, or doorway with 5 inch swivel casters for ease in mobility. The entire cart is made from our bolt-together caster beams which allows easy reconfiguration if needed.

If you are looking for a time-savings mini-lab-on-a-cart, this is your dream. It will save you months or up to a year of time.

Please call or email for pricing.

2/21/2024

Salgenx Flow Battery Technology Report

Salgenx, a renowned provider of innovative energy solutions, has recently unveiled its highly anticipated Salt Water Redox Flow Battery Technology Report.

Find out how this technology has been around for 100 years.

See why the US Military spent \$5 million to verify the technology.

Find out why the Pacific Northwest Laboratory did experiments to prove the technology.

This comprehensive report takes a deep dive into the dynamics of grid-scale flow batteries, shedding light on crucial aspects such as economics, efficiency, and deployment strategies.

With insights derived from extensive research and engineering expertise, the report offers valuable recommendations for optimizing financial viability, enhancing energy conversion efficiency, and successful deployment.

This groundbreaking resource is expected to revolutionize the understanding and adoption of grid-scale flow batteries, driving advancements in energy storage and accelerating the transition to a sustainable future.

Learn how to build a demo cell that you can test and use.

The Salt Water Redox Flow Battery Technology Report is now available for purchase on the Salgenx website, positioning it as an essential read for industry professionals, investors, and stakeholders seeking reliable, efficient, and eco-friendly energy storage solutions.

Please email for pricing.

Salgenx Experimenters Kit Flat Plate Anode for Saltwater Battery

Description: Salgenx Experimenters Kit Flat Plate Anode for Saltwater Battery. Perfect for half cell beaker testing and validation.

Measurements: About 4 inches in length.

Price: \$500

In Stock: 2 items.

Order Time For More: Up to 3 days approximately.

Shipping: USPS One-rate box to any USA address.

Order Now: Shipping within 3 days of order in stock.

Note: All sales final. No refunds or returns will be accepted.

Quantity Discounts: For more than 500 items at one order, expect huge discounts.

Recipe Formulation: Available with license so you can manufacture or source suppliers on your own.

Support: Support is an additional option, typically through some type of license arrangement, since information is proprietary.

Salgenx Experimenters Tube Anode for Saltwater Battery

Description: Salgenx Experimenters Tube Anode for Saltwater Battery. Perfect for half cell beaker and flow cell testing and validation.

Measurements: About 6 inches in length.

Price: \$500

In Stock: 2 items.

Order Time For More: Up to 4 weeks approximately.

Shipping: USPS One-rate box to any USA address.

Order Now: Shipping within 3 days of order.

Note: All sales final. No refunds or returns will be accepted.

Quantity Discounts: For more than 500 items at one order, expect huge discounts.

Recipe Formulation: Available with license so you can manufacture or source suppliers on your own.

Support: Support is an additional option, typically through some type of license arrangement, since information is proprietary.

Salgenx Experimenters 12 Inch Tube Anode for Saltwater Battery

Description: Salgenx Experimenters 12 Inch Tube Anode for Saltwater Battery. Perfect for flow cell testing, validation, and production.

Measurements: About 12 inches in length.

Price: \$1000

In Stock: 2 items.

Order Time For More: Up to 4 weeks approximately.

Shipping: USPS One-rate box to any USA address.

Order Now: Shipping within 3 days of order in stock.

Note: All sales final. No refunds or returns will be accepted.

Quantity Discounts: For more than 500 items at one order, expect huge discounts.

Recipe Formulation: Available with license so you can manufacture or source suppliers on your own.

Support: Support is an additional option, typically through some type of license arrangement, since information is proprietary.

Salgenx Cathode Materials Powder for Saltwater Battery 250 Grams

Description: Salgenx Cathode Materials Powder for Saltwater Battery. Perfect for flow cell testing, validation, and production.

Quantity: 250 grams

As Provided: Powder material. You may configure this to your electrode as desired.

Price: \$1000

In Stock: Up to 1 kilogram

Order Time For More: Up to 4 weeks approximately.

Shipping: USPS One-rate box to any USA address.

Order Now: Shipping within 3 days of order in stock.

Note: All sales final. No refunds or returns will be accepted.

Quantity Discounts: For more than 1 metric ton at one order, expect huge discounts. Production orders would typically be more than 1 metric ton.

Recipe Formulation: Available with license so you can manufacture or source suppliers on your own.

Support: Support is an additional option, typically through some type of license arrangement, since information is proprietary.

Salgenx Cathode Materials Powder for Saltwater Battery 500 Grams

Description: Salgenx Cathode Materials Powder for Saltwater Battery. Perfect for flow cell testing, validation, and production.

Quantity: 500 grams

Price: \$1800

In Stock: Up to 1 kilogram

Order Time For More: Up to 4 weeks approximately.

Shipping: USPS One-rate box to any USA address.

Order Now: Shipping within 3 days of order in stock.

Note: All sales final. No refunds or returns will be accepted.

Quantity Discounts: For more than 1 metric ton at one order, expect huge discounts. Production orders would typically be more than 1 metric ton.

Recipe Formulation: Available with license so you can manufacture or source suppliers on your own.

Support: Support is an additional option, typically through some type of license arrangement, since information is proprietary.

Salgenx Cathode Materials Powder for Saltwater Battery 1 Kilogram

Description: Salgenx Cathode Materials Powder for Saltwater Battery. Perfect for flow cell testing, validation, and production.

Quantity: 1 kilogram

Price: \$3500

In Stock: Up to 1 kilogram

Order Time For More: Up to 4 weeks approximately.

Shipping: USPS One-rate box to any USA address.

Order Now: Shipping within 3 days of order in stock.

Note: All sales final. No refunds or returns will be accepted.

Quantity Discounts: For more than 1 metric ton at one order, expect huge discounts. Production orders would typically be more than 1 metric ton.

Recipe Formulation: Available with license so you can manufacture or source suppliers on your own.

Support: Support is an additional option, typically through some type of license arrangement, since information is proprietary.

Salgenx Experimenters Kit 10 Inch Flat Plate Anode for Saltwater Battery

Description: Salgenx Experimenters Kit 10 Inch Flat Plate Anode for Saltwater Battery. Perfect for half cell beaker and flow battery cell testing and validation.

Measurements: About 10 inches in length.

Price: \$900

In Stock: 1 item.

Order Time For More: Up to 4 weeks approximately.

Shipping: USPS One-rate box to any USA address.

Order Now: Shipping within 3 days of in stock order.

Note: All sales final. No refunds or returns will be accepted.

Quantity Discounts: For more than 500 items at one order, expect huge discounts.

Recipe Formulation: Available with license so you can manufacture or source suppliers on your own.

Support: Support is an additional option, typically through some type of license arrangement, since information is proprietary.

Bismuth Metal for Experimenting Non Commercial Use

Description: High grade Bismuth for experimenting. Can be used for making crystals or as an electrode. We include advice on how to form into a electrode for non commercial use.

Atomic Number = 50

Melting Point (F) = 450

Atomic Mass= 118.71

Boiling Point (F) = 4100

Density (g/cm³) = 7.29

Analysis: BISMUTH 99.99%

Quantity: 1 kilogram (2.2 pounds)

Price: \$100

In Stock: Up to 1 kilogram

Order Time For More: 3 days approximately.

Shipping: USPS One-rate box to any USA address.

Order Now: Shipping within 3 days of order in stock.

Note: All sales final. No refunds or returns will be accepted.

Electrode Bags for Experimentation

Description: Highly conductive bags (pocket) for electrode materials (specifically cathode materials). The advantage of these bags is that you can put solids or powdered material into the bag, without having to form a solid electrode. This is the first step in testing new materials without the hassle of trying to form a complicated multi-compound solid electrode for use in electrolysis. Perfect for half-cells.

Quantity: 1

Standard Size: 10 x 14 cm

Custom Size: Available (please email for quote)

Price: \$50

In Stock: 6

Order Time For More: 1-3 days.

Shipping: USPS One-rate to any USA address.

Order Now: Shipping within 3 days of order in stock.

Note: All sales final. No refunds or returns will be accepted.

Salgenx S3000 3 MWhr Completed Battery Pack System 48V

Description: 3,000 kWh Completed Battery System.

48-480V (other voltages and configurations available)

Measurements: Tank Containers with Command and Control Container.

-or-

Over the road tankers and Command and Control Van.

You supply water, salt, off-the-shelf counter electrolyte.

Price:(1-5) \$3,000,000

Price: After 6 units \$1,000,000

In Stock: Custom order.

Order Time For More: 6-12 months.

Shipping: To any USA lower 48 location.

Order Now: Shipping within 3 days of in-stock.

Support: Support is an additional option.

Salgenx S6000 6 MWhr Completed Battery Pack System 48V

Description: 6,000 kWh Completed Battery System.
48-480V (other voltages and configurations available)

Measurements: Tank Containers with Command and Control Container.

-or-

Over the road tankers and Command and Control Van.

You supply water, salt, off-the-shelf counter electrolyte.

Price:(1-5) \$5,000,000

Price: After 6 units \$3,000,000

Price: After 12 units \$2,000,000

In Stock: Custom order.

Order Time For More: 6-12 months.

Shipping: To any USA lower 48 location.

Order Now: Shipping within 3 days of in-stock.

Support: Support is an additional option.

Salgenx S12MW 12 MWhr Completed Battery Pack System 48V

Description: 12,000 kWh Completed Battery System.
48-480V (other voltages and configurations available)

Measurements: Tank Containers with Command and Control Container.

-or-

Over the road tankers and Command and Control Van.

You supply water, salt, off-the-shelf counter electrolyte.

Price:(1-5) \$9,000,000

Price: After 6 units \$5,000,000

Price: After 12 units \$4,000,000

In Stock: Custom order.

Order Time For More: 6-12 months.

Shipping: To any USA lower 48 location.

Order Now: Shipping within 3 days of in-stock.

Support: Support is an additional option.

Salgenx S18MW 18 MWhr Completed Battery Pack System 48V

Description: 18,000 kWh Completed Battery System.
48-480V (other voltages and configurations available)

Measurements: Tank Containers with Command and Control Container.
-or-

Over the road tankers and Command and Control Van.
You supply water, salt, off-the-shelf counter electrolyte.

Price:(1-5) \$9,000,000

Price: After 6 units \$8,000,000

Price: After 100 units \$6,000,000

In Stock: Custom order.

Order Time For More: 6-12 months.

Shipping: To any USA lower 48 location.

Order Now: Shipping within 3 days of in-stock.

Support: Support is an additional option.

Salgenx SAMx 250 kWh Salt Water Array Battery System

Description: 125-250 kWh Completed Battery System.

12-48V (other voltages and configurations available)

Measurements: Uses IBC (Intermediate bulk containers are DOT/UN approved containers).

48V (other voltages and configurations available)

You supply water, salt, off-the-shelf counter electrolyte.

This is basic battery only. 25 kW electrolyzer stack. That means slow charging and maximum 25 kW discharge rate.

Does not include charge controller or inverter.

Price:(1-5) \$500,000

Price: After 6 units \$100,000

In Stock: Custom order.

Order Time For More: 6-12 months.

Shipping: To any USA lower 48 location.

Order Now: Shipping within 3 days of in-stock.

Support: Support is an additional option.

Salgenx Lift Pump System License

Description: The Salgenx Lift Pump System is design to pump saltwater and viscous fluids. For the saltwater flow battery application, it has piping and fixtures which are electrolyte material compliant to resist corrosion from environmental conditions from saltwater. Each bulk liquid electrolyte tank will have a pump. **Measurements:** 3 inch inlet and exit pipe. Multiple input and sensor options.

Price:(1-5) \$20,000

Price: After 6 units \$10,000

In Stock: Custom order.

Order Time For More: 1-2 months.

Shipping: To any USA lower 48 location.

Order Now: Shipping within 3 days of in-stock.

Support: Support is an additional option.

Modular Block Experimental Electrolyzer Vertical Mount

Description: Experimental one cell electrolyzer.

Measurements: 1.6-1.8 V discharge cell voltage. Multiple input and sensor options.

Price: (1-5) \$15,000

Price: After 6 units \$5,000

In Stock: Custom order.

Order Time For More: 1-2 months.

Shipping: To any USA lower 48 location.

Order Now: Shipping within 3 days of in-stock.

Support: Support is an additional option.

Modular Block Experimental Electrolyzer Vertical Mount

Description: Experimental one cell electrolyzer. Vertical mounting. Includes anode and cathode.

Measurements: 1.6-1.8 V discharge cell voltage.

.5 inch tubing input and output. Multiple input and sensor options.

Price: 1 unit \$10,000

Price: After 500 units \$1,000

In Stock: Custom order.

Order Time For More: 1-2 months.

Shipping: To any USA lower 48 location.

Order Now: Shipping within 3 days of in-stock.

Support: Support is an additional option.

