



Salgenx

salgenx-blade-electrolyzer

Salgenx Modular Blade Electrolyzer Battery Cell Unit

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This webpage QR code

Structured Data

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Salgenx Modular Blade Electrolyzer Battery Cell Unit

PDF Version of the webpage (first pages)

<https://salgenx.com/salgenx-blade-electrolyzer.html>

Salgenx Modular Block Cell Electrolyzer Unit

Blade \$10,000 to \$30,000 each depending on model application (plus shipping).

1.6-1.8 V discharge cell voltage.

Stack these up to make a full electrolyzer stack and full battery.

1.1 Voltage factor (i.e. $12V = 12 \times 1.1 = 13.2V$ charging). Divide by 1.6 V as lowest discharge.

Round up and decimal units to make next higher cell voltage.

1.6-1.8 V discharge cell voltage.

200-3500 amps per module.

Each 1.8 V cell can be 1-10 kW power density.

12V = 8 standard cells

24V = 16 standard cells

48V = 32 standard cells

120V = 83 expanded cells

240V = 160 expanded cells

480V = 320 expanded cells

960V = 640 expanded cells

Larger electrolyte tank capacity equals more storage capacity (kWh).

Dimensions: 20 in (508 mm) height x 30 (762 mm) in length x 12 in (305 mm) wide.

Does not include electrolyzer flow bar manifold.

Inputs:

Aqueous and Organic

Outputs:

Aqueous and Organic

Sensors (optional):

Volts, amps, temperature, pH, flow, optional ports for added sensors (future proof).

First few versions are still in Beta stage (not final product).

Non-disclosure agreement has to be signed prior shipment.

5/29/2023

Front Panel

The front panel of the Salgenx Flow Bladex Electrolyzer module will have basic user inputs for ease of setting up, operation, and maintenance.

The panel is like a server blade in that you can number it up to increase battery system voltage and current.

Since it is a flow battery with aqueous and organic fluid flows, there are view ports which not only allow visual eyesight monitoring, but also via a camera, laser, or other optics which allow remote viewing or sensing.

There are two electrode panels which are easily removable for servicing or replacement if needed.

A simple digital status and operation indicator are available.

The purpose of the blade is as a electrolyzer which accepts a charge and as the discharge point of the flow battery. The blade is unique from its many functions and ease in assembly, operation, and maintenance. The 1.8 V module can be used to connect in series or parallel, which gives you the flexibility to build a battery of any DC voltage and amperage. Increasing surface area of the electrodes and flow equals more power.



