

GREENROCK

THE SALTWATER ENERGY STORAGE SYSTEM



Partner Brochure
Integrated Storage System

Salt Water Technology

To face the challenges of increasing energy consumption and increasing use of **renewable energy**, power storage systems are needed. High performance, safety, **cost efficiency** and sustainability are most important.

We offer the **world's safest & most environmentally friendly** salt water based battery. The patented Aqueous Ion Exchange Battery (AIB™) is proven in thousands of systems. The batteries are closed energy storage systems based on **saltwater electrolyte**. Power storage is made out of common, non-toxic raw materials and cost-saving production techniques.

Saltwater batteries are completely **maintenance-free** and optimized for daily deep discharge. Frequent partial charge and discharge cycles do not have any influence on the life of the battery.

Performance and operating Data

at 25°C

Nominal Energy	2.5 kWh
Nominal Voltage	48 V
Voltage Range	35 V – 60 V
Charging Profile	CC (constant current)
Usable depth of discharge (DOD)	100 %
Efficiency	88 %
Max. charge current	20 A
Max. discharge current	20 A
Operating temperature range	-5°C – 50°C
Storage temperature range	-5°C – 50°C
Life cycle	5000 cycles @ 80%



Physic characteristics

Height	960 mm
Width	313 mm
Depth	329 mm
Weight	140 kg

Warranty

10 years	acc. to warranty conditions
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Construction of the Saltwater Battery



Stainless steel

Stainless steel current collector



Based oxide

Manganese oxide cathode



Cotton

Synthetic cotton separator



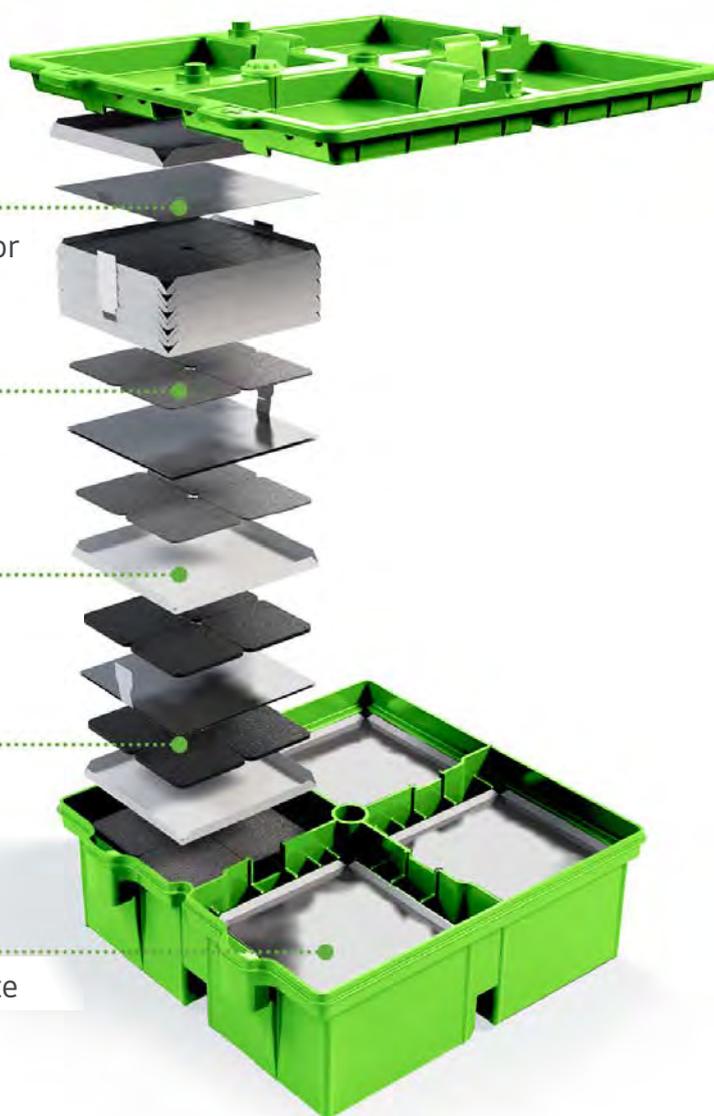
Carbon

Carbon-titanium phosphate anode



Salt water

Alkali ions saltwater electrolyte



This unique technology provides sustainability for the environment & maximum safety in your home.