

Manufacturer: Analysis for Salgenx Salt Water Battery

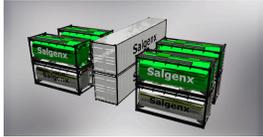
12,000 kW (12 MW) Battery System - Salgenx Salt Battery Technology

11/6/2023



S12MW: This system uses multiple tanks for electrolytes. Two dry containers for electrodes, command, and control.

Battery Efficiency	.91					
Energy Efficiency	10	mA/cm2	100	A/m2	9.29	A/ft2



Power Density (Wh/L)	125.7	x	100000	=	12,570	kW
kW loss per round trip	.91	x	12,570	=	1,131	kW

Manufacturer System Build Data: Note does not include Heat Pump thermal storage option

Materials Cost /kW	\$125,700	=	\$10.00	x	12,570	kW
Electrodes / Cost /kW	\$502,800	=	\$40.00	x	12,570	kW
Containers / Labor / System	\$240,000					
Pumps / Controls / System	\$130,000					
Charge Controller / Inverter	\$600,000					
Fully Assembled Cost	\$1,598,500					
Fully Assembled Cost / kW	\$127					
Tax Credits	\$439,950	unit	=	\$35	/kW	x 12,570 kW

Electrolyzer Stack Capacity	2400 kW
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Retail Price	\$4,000,000
Mfg Net Profit	\$2,401,500

Notes:

Retail Price : \$4,000,000 \$318 /kW

1. Charge Controller and Power Inverter are biggest cost. Source directly from manufacturer or change size to reduce costs.
2. Running one (1) cycle per day: Charge at night during off peak night, and then using stored battery power during on peak hours during the day.
3. Cogen Battery Thermal Savings: If a optional heat pump input with COP 3 is used during the evening, the heated water (salt water) can be used during the day, without effecting charge. This can result in large savings since a heat pump can produce significant savings while used off-peak, and storing heated liquid for later use.