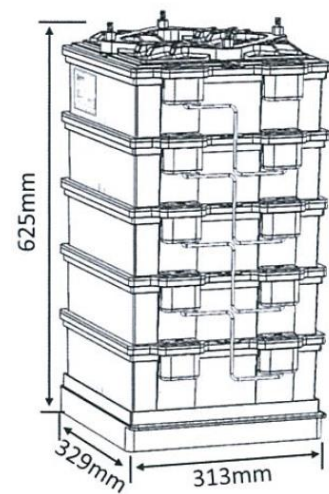


Flameproof Saltwater Battery

Fuji Bridex's Flameproof Saltwater Battery (FSWB) product line is the base unit. FSWB provides a safe, clean and sustainable solution to many applications ranging from utility scale energy storage to backup power/ESS for homes and small businesses. FSWB is scalable and modular in design to meet various voltages and amperes rating requirement. FSWB offers long cycle life, near zero maintenance and higher temperature tolerance unmatched by other types of batteries.

PRODUCT SPECIFICATION

Normal Capacity	53Ah@5A Charge/ 5A Discharge	Maximum Charge / Discharge Current	20A
Nominal Energy	1.6KWh@5A / 5A Charge / Discharge	Cycle Life	>3500 cycles
Nominal Voltage	30VDC	Operating Temperature	+10°C ~ +55 °C
Voltage Range	22VDC - 37.5VDC	Battery Weight	Approx. 90kg
Roundtrip Efficiency	>85%	Battery Dimensions	Height: 625mm Width: 313mm Depth: 329mm
Impedance	0.25Ω		

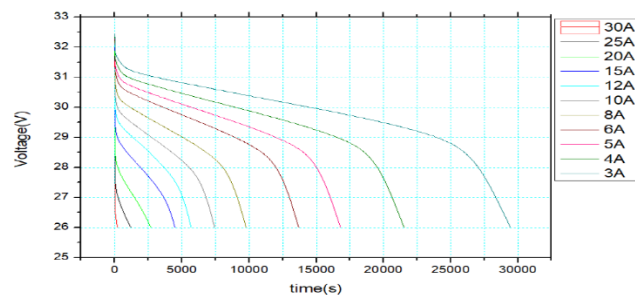


PRODUCT PERFORMANCE

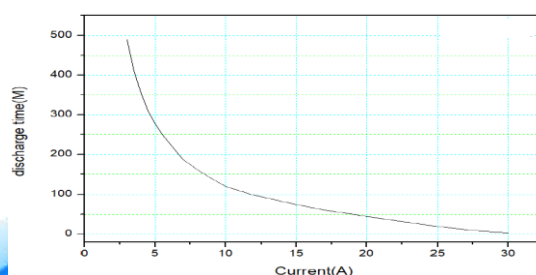
Testing Temperature At **30°C ± 1°C**

Capacity (Ah)		Charge Current (A)		
		5A	10A	15A
Discharge Current	5A	53.1	42.8	35.8
	10A	46.7	39.0	32.5
	15A	42.9	35.8	31.3
Energy Efficiency (%)		Charge Current (A)		
		5A	10A	15A
Discharge Current	5A	88.5	87.6	86.2
	10A	85.0	84.2	82.0
	15A	83.8	82.0	80.9
Energy (Wh)		Charge Current (A)		
		5A	10A	15A
Discharge Current	5A	1603	1252	1012
	10A	1411	1142	917
	15A	1294	1048	883

VOLTAGE VS. DISCHARGE TIME



DISCHARGE CURRENT VS. DISCHARGE TIME





Flameproof Saltwater Battery

Fuji Bridex's Flameproof Saltwater Battery is the first clean and sustainable battery chemistry. It is safe and easy to use, robust performance, simple to install and operate. Battery chemistry is optimal for any stationery, long-duration, daily cycling applications, including on and off-grids, telecom systems, solar and industrial. The Flameproof Saltwater Battery has significant safety & technological advantages over other battery types, creating value for the end-user.



SAFE & ECO-FRIENDLY



UL1973 Certified Flame Propagation Proof

- * Completely flame-proof and non-explosive
- * Completely safe even over-charged
- * No fire suppression system required
- * No toxic components and substances
- * No gases produced
- * No combustible vapors



No Thermal Management Required

- * Operates at normal ambient temperature
- * Battery chemistry has zero effect from thermal runaway



Green Battery

- * Sealed and Safe to touch
- * Electrolyte is saltwater and non-caustic
- * No special protective equipment required
- * No special containment required in case of leakage
- * No electrolyte refilling



Sustainable Manufacturing

- * Sustainable processes at each stage of manufacturing
- * Can discharged to zero volt
- * Safe to travel by Air - classified as standard goods



Environmental Advantage

- * All natural raw materials
- * Able to dispose as normal household waste
- * No ventilation or controlled environment required
- * Theft deterrence



ROBUST PERFORMANCE



Tested At 30°C (Not At 20°C Or 25°C)

- * High temperature tolerance and less susceptible to operational temperature swings
- * Full rate capacity operation from 10°C at 40°C on 24-hour rolling
- * No need to derate or oversize
- * Not affecting on cycle life and performance



>3500 Cycles at 100% Depth of Discharge

- * Battery at depth of discharge (DoD) can be operated in wide variety of conditions while still achieving over 3500 cycles
- * True 100% charge and discharge = 1 cycle



Robustness To Partial States Of Charge (PSOC)

- * Robust to any variable cycling profiles, long duration stands at partial states of change
- * Does not require to maintain continuous cycling to maintain performance and life



Extremely Low Self-Discharge <3%

- * Extremely low life-limiting or self-discharging reactions when not in operation
- * Can be installed for up to several months from shipment, granting more application flexibility

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