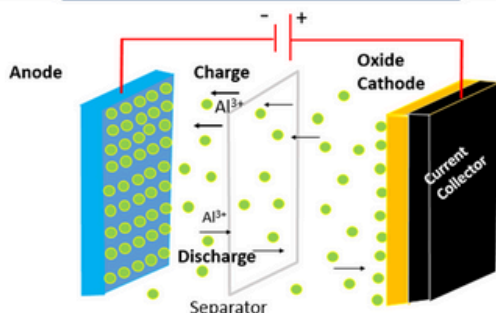


Reversible Aluminium Ion Battery

Working Principle



During charging Al get deposited on anode and during discharge Al transfers from anode to cathode and get intercalated

Battery Pack specification

Parameter	Specification
Single Cell	Aluminum ion battery, 1.6 V, 30 mAh
Battery pack voltage	>12 V
Battery capacity	900 mAh
Battery Energy	~ 10 Wh

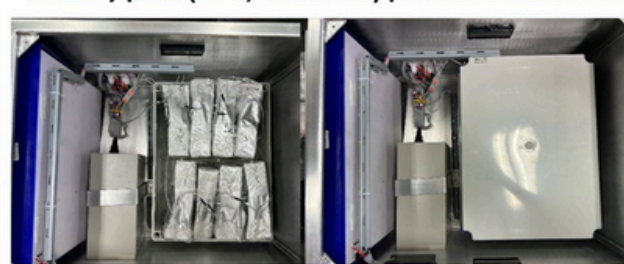
Development of Battery Pack

Pouch Cell
1.6 V, 150 mAh

Pouch Cell pack
1.6 V, 900 mAh

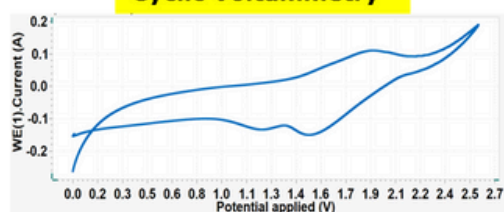
Battery pack 12 V, 900 mAh

Battery pack (12 V, 900 mAh) placed in model stand

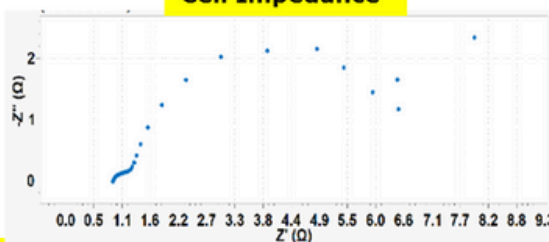


Development of AIB Pouch Cell

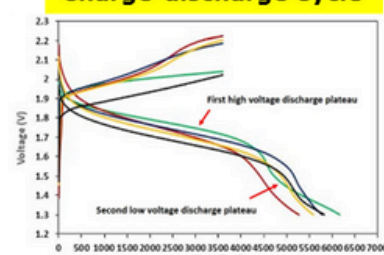
Cyclic Voltammetry



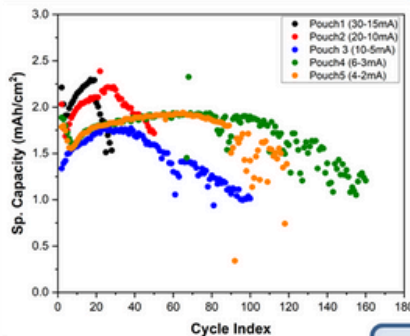
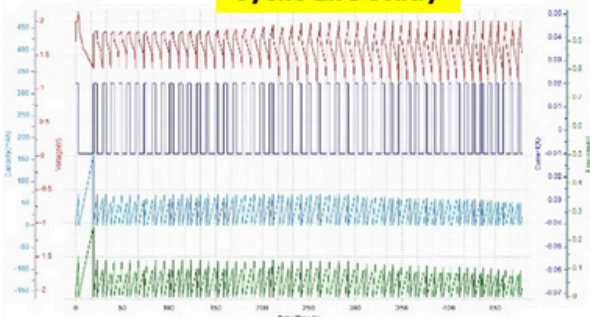
Cell Impedance



Charge-discharge Cycle



Cyclic Life study



Applications

AIB Features and Advantages

- Safe, low cost and indigenous energy storage technology
- Sustainable, abundant raw materials

