

Liquid Metal™ battery – A superior technology for grid energy storage

Ambri is the only company in the world commercializing this groundbreaking calcium-antimony battery technology

Superior operating performance

20+ year useful life with <5% degradation 80-90% round-trip efficiency

Compelling economics

Lithium-ion total cost of ownership can be up to 45% higher

Reliable & extremely safe

No thermal runaway, passed UL safety certification Non-flammable electrolyte, no moving parts

Scalable

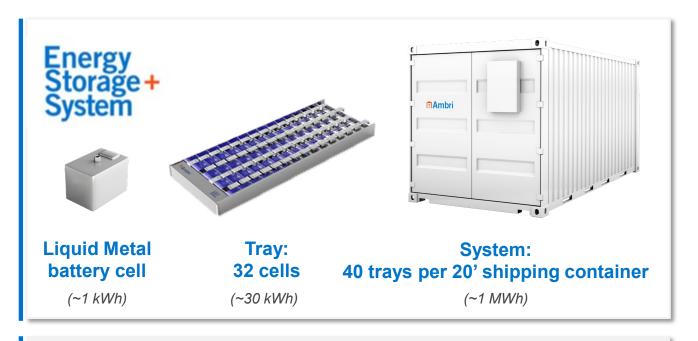
Attractive for the world's largest renewable projects Modular ~1 MWh system blocks

Proven technology

500 °C operation enables use of low-cost materials and robust liquid metal electrode

Tested and validated by independent third-parties

Currently producing cells for customer systems



Ambri technology is proven and ready to scale



>2,000

full discharge cycles, no capacity fade, equivalent to ~7 years of typical use



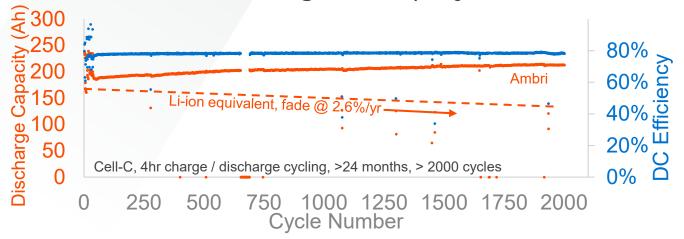
Validated

by independent thirdparty performance and safety tests

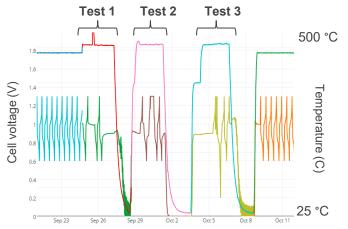


Strong Value Proposition vs. Li-ion

<0.25% vs. 2.6% degradation per year for Li-ion



Inherently safe whereas Li-ion requires fire controls



Single cells safe during:

- Overheat
- Overcharge
- Short circuit
- Nail penetration

Passed multiple UL tests

Benefits

- Lower cost, 20-year battery system without need for augmentation
- Easier permitting for developer due to safer battery system
- More revenue for battery owner due to lower degradation



CONFIDENTIAL & PROPRIETARY 2025

Case study – Microsoft

Currently operational pilot demonstrating commercial viability of Ambri systems for data center usage

Overview

- Ambri's first commercial pilot with Microsoft has been highly successful
- Deployment of prototype Ambri system to support
 a Microsoft data center
 - 10 kW / 40 kWh pilot system capacity
- Operational testing began in September 2022 with excellent results:
 - >350 cycles achieved over 7 months
 - Idle to full power in < 6msec-class 1 compliant
 - 76% to 87% efficiency from Cp/4 to Cp/8
 - 39.9 kWh average at Cp/4
 - 55.4 kWh average at Cp/8

Operational pilot system







Eliminates diesel generators



24 x 7 Renewable power





Similar but better than Lead Acid for Grid Energy Storage





	Heavy Duty Deep Cycle	Liquid Metal™	
Size	24	E3	
Volume (L)	11.1	10.7	
Weight (lbs)	46	62	
Capacity (Ah – 10h)	75	1340	
Voltage (V)	12	1	
Energy (Wh)	900	1139	+27%
Vol. energy density (Wh/l)	81.1	106.4	+319
Cycle Life to 50% DoD	2000	>7300	
Cycle Life to 100% DoD	<1000	>7300	

Cycle life to 10% DoD and energy density are important to grid-scale energy storage market



Thank you

Contact Ambri for further information

Adam Briggs CCO <u>abriggs@ambri.com</u>

+1-732-403-7285

