

CustomCells

Energy at its best



Innovating & industrializing customer-centric premium battery technology

Introducing our new **cylindrical battery cell**, a pinnacle of German engineering and localized production opportunities in **Europe and North America** at the right scale. Designed to meet the specific needs of specialized applications. Our product stands apart with its **unmatched energy and power density**, innovative materials, and **superior cell design**, ensuring longevity and reliability. With customization at its core, we offer novel solutions to enhance system performance.

Experience the future of battery technology, where innovation, performance, and sustainability converge.





TARGET SPECIFICATION CYLINDRICAL 46MM BATTERY CELL

Type No.	INR4695
Nominal Voltage [V]	3.4 (average) ¹
Typical Capacity [Ah]	37.7 (at C/3 from 4.2 to 2.5 at 25°C) ¹
Grav. Energy Density	>300 Wh/kg ²
Vol. Energy Density	>825 Wh/l ²
Dimensions [mm]	4695 ²
Diameter [mm]	46±0,2 ²
Height [mm]	95±0,2 ²
Weight. approx. [g]	~440 ²
Fast Charge	20% - 80% in < 15min ²
Discharge	Continuous: >4C ² Max.: 10C ²
Temperature Range [°C]	-35 °C – 60°C
ACIR Initial [mΩ]	< 1.5 ¹
Cycle Life	>1000 (> 80% of Cini) ²

¹ Estimated Value

² Target Value



PRODUCT HIGHLIGHTS



Exceptional energy density
Made for applications where weight or space matter

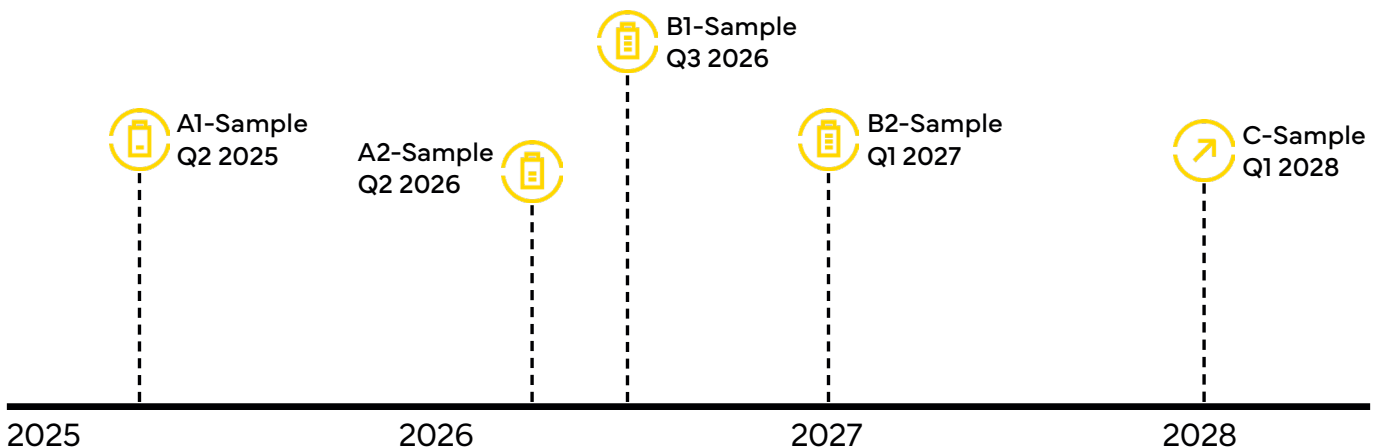


High power capability
Discharge of >4 C continuous and 10C peak with 37.7 Ah capacity



Fast charging performance
Charging 20% - 80% in less than 15 min

PLANNED PRODUCT TIMELINE



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