

Electrochem's BCX Cell Chemistry

What is Electrochem's BCX cell chemistry?

BCX is a high-energy proprietary cell chemistry developed by Electrochem specifically for low temperature performance. The cells contain a thionyl chloride-based electrolyte with an additive that increases the cell voltage and leads to improved start-up and discharge performance under low temperature conditions. A proprietary process forms the bromine-chlorine additive during the electrolyte preparation and purification.



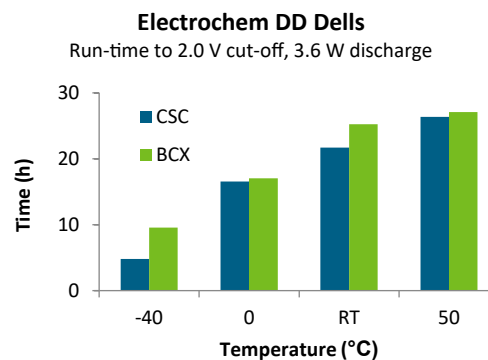
What are the benefits of Electrochem's BCX cell Chemistry?

Our BCX DD cells are capable of delivering a maximum continuous current of 3.0 A, substantially higher than low rate bobbin style cells delivering 100 mA or less of maximum continuous current.

Because they operate at a higher voltage, the Electrochem BCX cells are uniquely suited to deliver higher capacity, and therefore longer runtime, when discharged under power load (i.e. brushless motors, DC/DC voltage regulation, pulse width modulation).

The chart to the right demonstrates the advantage our BCX DD cell has at over a comparable CSC DD cell. The BCX cell provides a performance advantage at both -40°C and room temperature, without sacrificing performance at other temperatures.

A BCX D cell can deliver up to 3 times the capacity of competitive cells when discharged at -40°C, while the BCX DD can deliver 12Ah of capacity under a 1A load at -55°C, making the performance of these cells extremely well suited for subsea, oceanographic, and arctic applications.



Why choose Electrochem?

Electrochem is a trusted leader in battery technology focused on providing superior power solutions that enable the success and advancement of our customers' critical applications. Through our consultative sales approach, we gain an understanding of our customers' product requirements, which ensure our power solutions meet their needs. Located in Raynham, MA, Electrochem's state-of-the-art facility provides high quality manufacturing with short lead times and consistent on time delivery.

To learn more about this exciting technology or other technologies we offer, please reach out to your Electrochem Sales Representative or email us directly at Marketing@ElectrochemSolutions.com.