

Electrochem's BCX Cell Chemistry

What is Electrochem's BCX cell chemistry?

BCX is a high energy 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. The bromine-chlorine additive is formed by a proprietary process during the electrolyte preparation and purification.

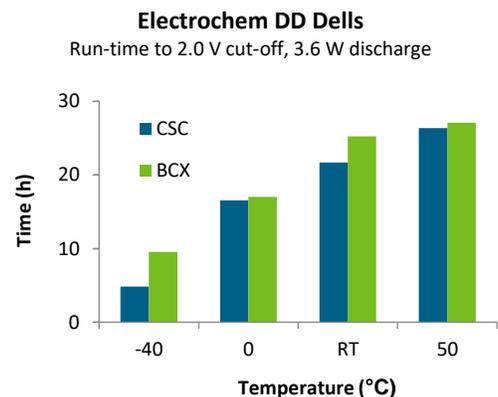


What are the benefits of Electrochem's BCX cell Chemistry?

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 can deliver up to 3x the capacity of competitive cells when discharged at -40°C , making them extremely well suited for subsea, oceanographics, and artic applications.

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, while performing equally with the CSC chemistry at other temperatures.



Why choose Electrochem?

Electrochem is a trusted leader in battery technology focused on enhancing lives worldwide by providing superior power solutions that enable the success and advancement of our customers' critical applications. Our technological expertise and heritage for superior quality, reliability, and innovation are part of our DNA; deeply rooted from our origins when Wilson Greatbatch developed the battery for the first implantable pacemaker. Whether our products are being used to monitor potential environmental catastrophes, support troops on the battle field, or explore geologic formations miles below the earth's surface, one thing is constant: failure is not an option.

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.