ELECTROCHEM®
AN ULTRALIFE COMPANY

150HR Series Cell

Are you tired of sacrificing rate for capacity and reliability?

Introducing Electrochem's 150HR Series Cell Where High **POWER** and High **ENERGY** Come Together

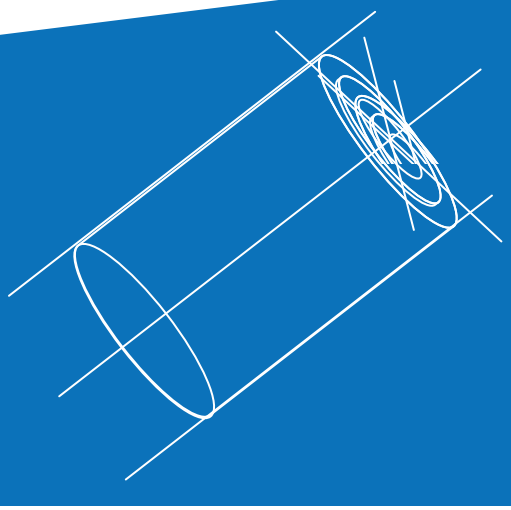
The 150HR Series Cell delivers high rate capability **without sacrificing** capacity or reliability, all in a ruggedized design that incorporates features that have been proven out over decades of downhole use.

Capable of operating at temperatures up to +150°C, the 150HR Series Cell also features a low magnetic signature to help minimize interference with your downhole tool's advanced electronics.

This combination of high rate and high capacity, delivered in a proven ruggedized design with a low magnetic signature, make it ideal for **Dual Telemetry Systems**.

For more information, contact your Electrochem sales representative or email us at: marketing@electrochemsolutions.com

Rated Capacity:	**38 Ah**
Maximum Cont. Current:	**2000 mA**
Cell Size:	TSD
Voltage:	3.67 V
Magnetic Signature:	< 40 nT
Temperature Range:	-40°C to +150°C



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670 Paramount Drive, Raynham, MA 02767 USA
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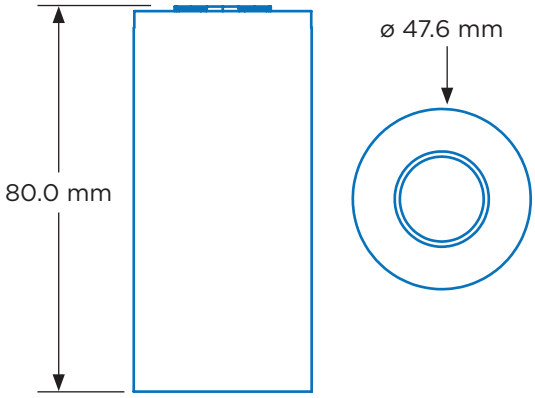
4440
High Rate TSD-LMS Cell
Lithium Thionyl Chloride

150HR Series

Physical Characteristics

Chemistry	Thionyl Chloride
Cell Size	TSD-LMS
Length[1]	80.0 mm
Diameter[2]	47.6 mm
Cell Weight	325.0 g
Lithium Weight	12.0 g
Integrated Safety Fuse	Yes

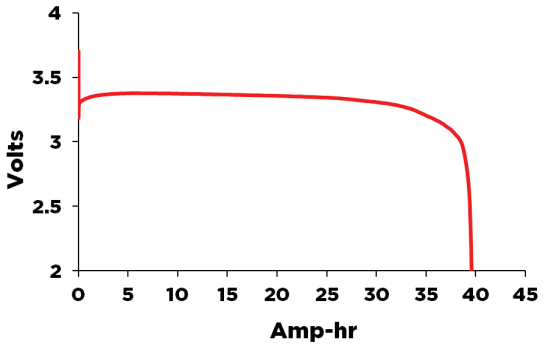
Cell Drawing



Electrical Characteristics

Cell Type	Primary
Open Circuit Voltage (25°C)	3.6 V
Nominal Capacity	38 Ah
Maximum Continuous Current	2000 mA
Operating Temperature	-40°C to +150°C
Self Discharge Rate	<3% per year
Storage Temperature	≤ 25°C
Discharge Condition	1000 mA, 120°C
Magnetic Signature	< 40nT

Discharge Curve
1000 mA, 120°C



Key Features

- Primary chemistry (non-rechargeable)
- Low magnetic signature
- Built to withstand extreme shock and vibration
- Stainless steel container
- Hermetic glass-to-metal sealing
- Restricted for transportation (Class 9)
- Custom terminations available

Main Applications[3]

- Downhole oil & gas
  - Measurement While Drilling (MWD)
  - Logging While Drilling (LWD)
- Military devices

NOTE: [1] The information on this datasheet is for marketing purposes only. Please consult with Electrochem for more information regarding how our cells will perform within your application. [2] The information in this document is subject to change without notice and does not constitute a warranty of performance. [3] This product and its external electrical contact materials are RoHS compliant. See our "RoHS Statement" for more information. [4] The length dimension was based off of a flat termination. The use of other terminations will impact overall cell length. [5] Diameter measurements include shrink when applicable. [6] The "Main Application" list does not include all potential applications, please consult Electrochem for your application needs.

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