

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:

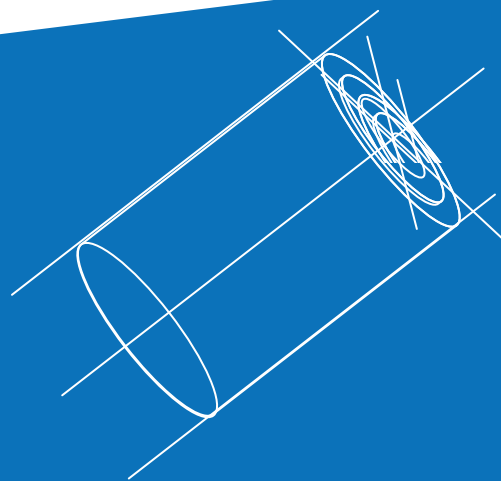
3.67 V

Magnetic Signature:

< 40 nT

Temperature Range:

-40°C to +150°C



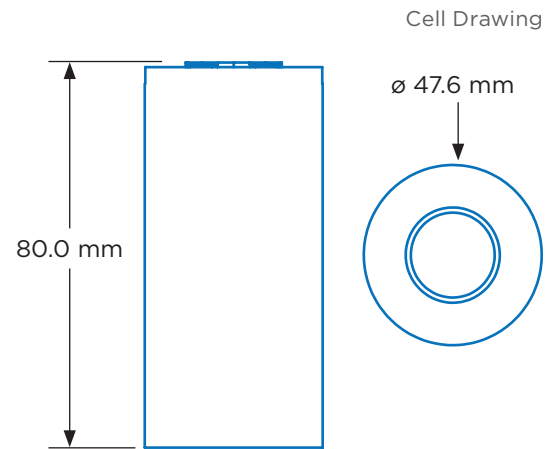
4440

High Rate TSD-LMS Cell Lithium Thionyl Chloride

150HR Series

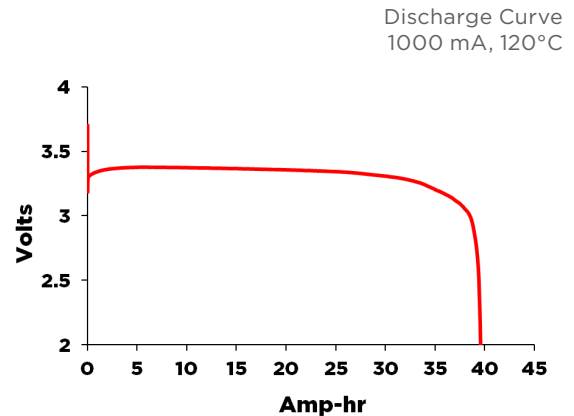
Physical Characteristics

| | |
|-------------------------------|------------------|
| Chemistry | Thionyl Chloride |
| Cell Size | TSD-LMS |
| Length¹ | 80.0 mm |
| Diameter² | 47.6 mm |
| Cell Weight | 325.0 g |
| Lithium Weight | 12.0 g |
| Integrated Safety Fuse | Yes |



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 |



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 Applications³

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

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