

Oil&Gas -MWD/LWD

MODEL : FAT-D-150

PN : 48-80-H150G



ISO 9001 : 2008
ISO 14001 : 2004
MSDS, RoHS, UN

Characteristics

- 3.6V FAT-D Size Lithium Thionyl Chloride Cell(Li-SOCl₂), Gallium Electrolyte
- Low Magnetic
- High Rate Capability
- High Capacity
- Extreme Shock and Vibration Resistance
- 150°C Operational Temperature

Key Features

- 304L stainless steel structure
- Hermetic glass-to-metal seal engineered for leak free operation
- Integral safety fuse and parallel diode
- Reduced Electrode Surface Area, high rate capability & lower self-discharge
- Low magnetic signature

Benefits

- Industry leading capacity
- High rate capability for high constant current and pulse applications
- Gallium based electrolyte providing excellent start up and minimal passivation
- Automated assembly for uniform performance
- Extreme shock and vibration testing to ensure trouble free operation under severe drilling conditions

Technical Support

- We pledge our full support to provide you with the service you deserve
- Application Analysis
- Testing and Test Reports
- Analysis of field problems and reports
- Engineering support for custom applications

Abuse and Transport Certifications

- UN/DOT Certified : Class 9 Transport, UN3090 Lithium Metal Batteries
- Shock Testing : To be determined
- Vibration Testing : To be determined

Cell Characteristics

Nominal Capacity <small>Based on 580mA discharge at temperatures of 25 ~ 150°C to a 2.0V cutoff. Discharge at higher currents or lower temperatures will affect capacity obtained.</small>	37Ah ~ 40Ah
Open Circuit Voltage <small>At 20°C</small>	3.65V
Nominal Closed Circuit Voltage <small>Based on stable CCV produced at 25°C under a 400mA load. The CCV of a cell will decay slightly over discharge due to the normal increase in internal impedance.</small>	3.2V
Magnetic Characteristics	40 nano Tesla@7inch
Constant Current Discharge	580mA 2000mA(reduced capacity)
Storage Conditions	30°C (86°F) Max
Operational Temperature Range <small>Note full capacity is obtained at temperatures of 25°C and above. Below 25°C both the rate capability and the capacity of the cell are reduced.</small>	-40°C to 150°C
Fuse	7.0A
Parallel Diode	3.0A

Physical Characteristics

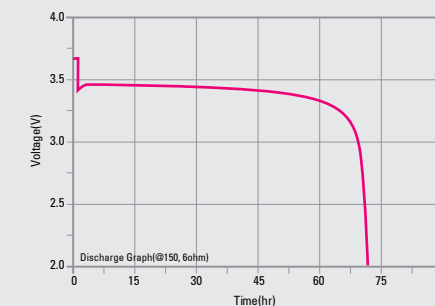
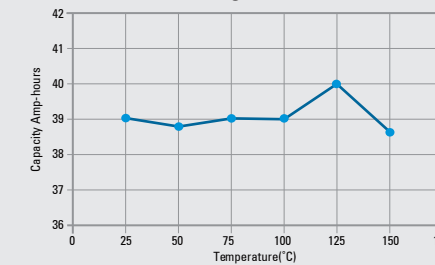
Diameter	48.5mm(1.91 in)
Height	80.5mm(3.17 in)
Weight	337g
Lithium Metal Content	12.3g

Packing Information

Packing Qty per C/T	36
Net Weight per C/T(Kg)	12.13
Gross Weight per C/T(Kg)	13.13
C/T Size	450mm×250mm×230mm

Temperature versus Capacity

Discharge Temperature vs. Nominal Capacity
6Ω Discharge 25 to 150°C



Storage

- Store cells in a cool (<30°C) and dry location

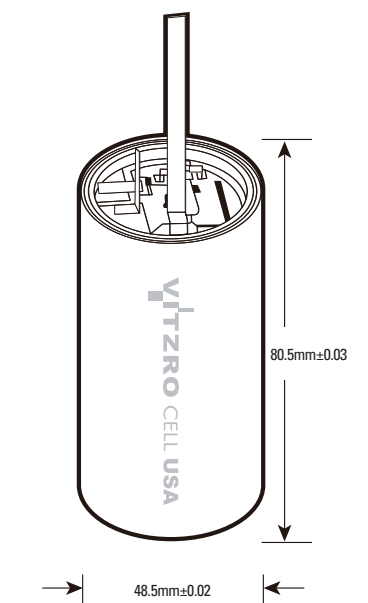
Warning

- Fire, explosion, and burn hazard
- Contents of this hermetically sealed cell are water reactive and will produce flammable and toxic gases if exposed to water
- Do not recharge, expose to flame, short circuit, crush, disassemble, or incinerate
- Do not expose cell to temperatures in excess of the maximum operating temperature, 150°C

Note

- Any information given here is for reference only. Information is also dependent on actual conditions and does not guaranty future performance. And subject to change.

External Dimensions



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