

Lithium Thionyl Chloride Battery High Temperature Battery



Model	Cell Size Ref	Nominal Voltage(V)	Nominal Capacity(Ah)	Maximum Continuous Current(mA)	Operating Temperature(°C)	Maximum Dimensions (mm)	Weight (g)
CYLINDRICAL CELLS							
ER14250MR-180	1/2AA	3.6	0.6	15	-40°C~+180°C	14.5 X 25.4	10
ER21102MR-180	Slim CC	3.6	7.5	30	-40°C~+180°C	21.0 X 103.0	78
ER26102S-180	CC	3.6	11	170	-40°C~+180°C	25.4 X 103.0	103
ER321250MR-180	DD	3.6	24	320	-40°C~+180°C	32.5 X 127.5	189
ER331270MR-180	DD	3.6	24	320	-40°C~+180°C	32.8 X 127.5	189
ER14250MR-150	1/2AA	3.6	0.8	20	-40°C~+150°C	14.5 X 25.4	10
ER21102MR-150	Slim CC	3.6	10	200	-40°C~+150°C	21.0 X 103.0	78
ER26102S-150	CC	3.6	16	330	-40°C~+150°C	25.4 X 103.0	103
ER321250MR-150	DD	3.6	28	425	-40°C~+150°C	32.5 X 127.5	189
ER331270HR-150	DD	3.6	28	500	-40°C~+150°C	32.8 X 127.5	189

Model	Nominal Voltage(V)	Working Time (h)	Glass Fiber Tube Length(mm)	Glass Fiber Tube Diameter(mm)	Battery Pack Total Length (Excluding Line) (mm)	Battery Pack Curvature	Operating Temperature(°C)
PACK SERIES							
HL-150 MWD	28.8	200~250	1118±2	37.3±0.2	1190±3	≤2°	-40°C~+150°C
PLM-150 MWD	36.0	200~250	1455±2	37.3±0.2	1570±3	≤2°	-40°C~+150°C
Geolink-150 MWD	18.0	200~250	785±2	37.3±0.2	785±2	≤2°	-40°C~+150°C

Electrical Characteristics(ER331270HR-150)

(Typical values for cells stored for one year or less, at +30°C)

Nominal capacity (Varies according to current drain, temperature and cut off voltage.)----- 28Ah

Nominal voltage ----- 3.6V

Maximum recommended continuous current ----- 500mA

(To get 50% of the nominal capacity at +20°C with 2.0V cut off. Higher currents possible, consult EVE.)

Storage [Recommended] (For more severe condition consult EVE)----- +30°C

Operating temperature range ----- -40°C~+150°C

(Operation at temperature different from ambient may lead to reduced capacity and lower voltage plateau readings)

Cell Diameter [Nominal] ----- 32.8mm

Cell Length [Nominal] ----- 127.5mm

Cell Weight ----- 189g

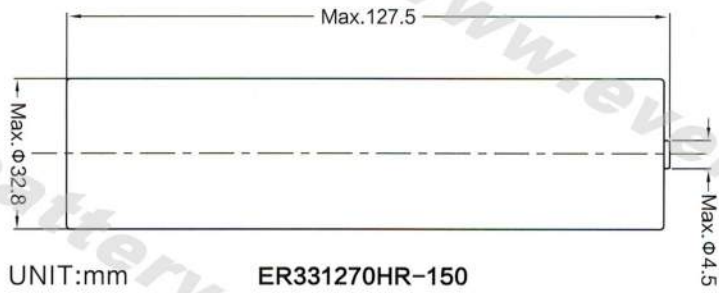
Lithium Weight ----- 7.3g

Key Feature

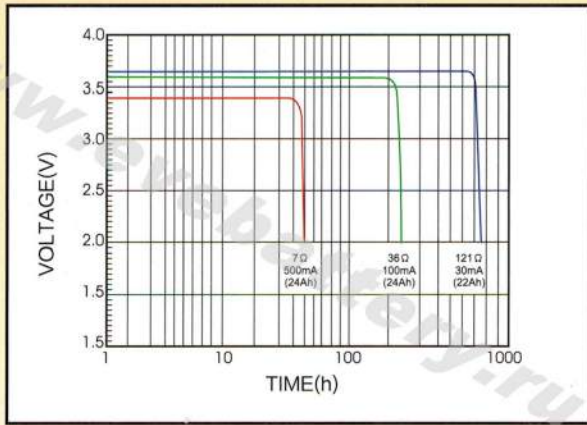
- Stainless steel container
- Primary cell(non-rechargeable)
- High voltage response, stable during most of the lifetime of the application
- Hermetic glass-to-metal sealing
- Built to withstand extreme shock and vibration
- Wide operating temperature range as low as -40°C and up to +150°C
- Low self discharge rate(1% per year at 20°C)
- Restricted for transportation(Class 9)
- Custom terminations available

Main Applications

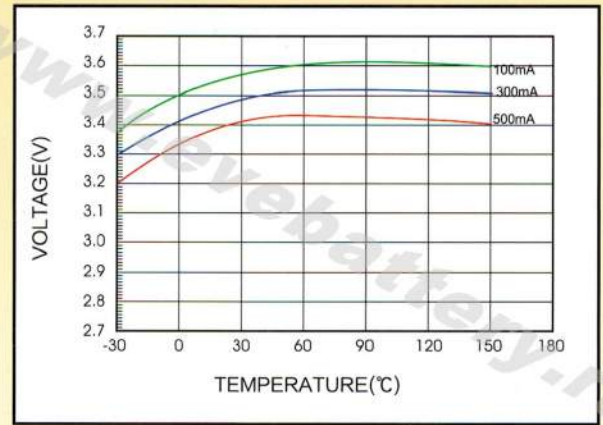
- Downhole oil & gas
 - Measurement While Drilling(MWD)
 - Logging While Drilling(LWD)
- Military devices



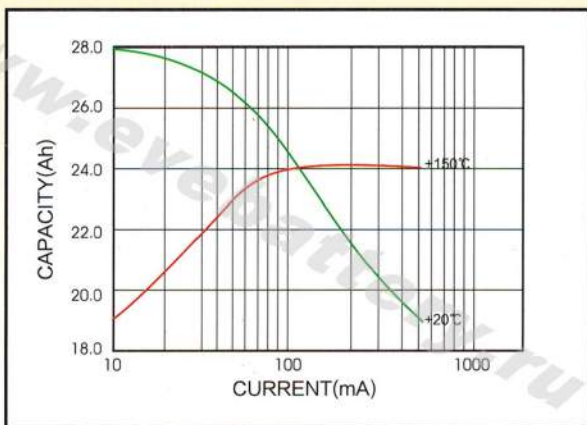
1. DISCHARGE CHARACTERISTICS @ +150°C



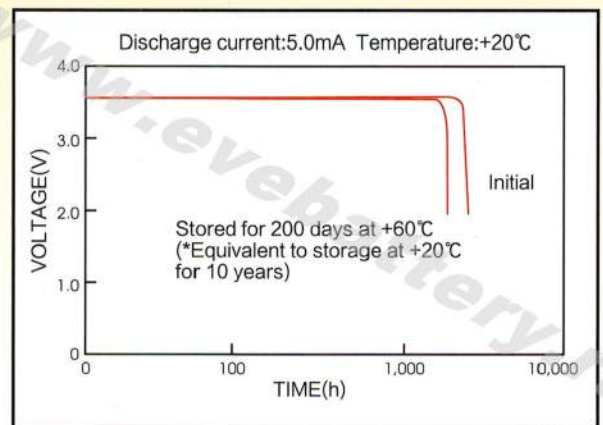
2. VOLTAGE VS. TEMPERATURE



3. CAPACITY VS. CURRENT



4. STORAGE CHARACTERISTICS



WARNING:

Fire, explosion and severe burn hazard. Do not recharge, crush, disassemble, heat above 165°C, incinerate, or expose contents to water.

Note: Any representations in this data sheet concerning performance are for informational purpose only and are not construed as warranties, either expressed or implied, of future performance.

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