

## Primary high temperature lithium battery

Safety enhanced high temperature batteries, optimized for oil and gas

### ER32615MR-145

3.6V Moderate Rate Lithium thionyl chloride(Li/SOCl<sub>2</sub>)

D-sized cell for operation up to 145 °C in demanding environments



### Key features

- Primary Cell(non-rechargeable)
- High voltage response,stable during most of the lifetime of the application
- Low self-discharge rate(less than 2% per year of storage at +20°C)
- Stainless steel container
- Hermetic glass-to-metal sealing
- Non-flammable electrolyte
- Built to withstand extreme shock and vibration
- Compliant with IEC 60086-4 safety standard
- Restricted for transport (class 9)

### Main applications

- Downhole oil & gas
  - Measurement While Drilling
  - Logging While Drilling
- Pipeline inspection gauges
- Tracking systems
- Sensor systems

### Electrical characteristics

(Typical values relative to cells stored for oen year or less at +30°C max)

|                                                                                                                                        |      |
|----------------------------------------------------------------------------------------------------------------------------------------|------|
| Nominal capacity                                                                                                                       | 14Ah |
| (At 1.8K $\Omega$ , +20°C, 2.0V cut-off. The capacity restored by the cell varies according to current drain, temperature and cut-off) |      |

|                  |      |
|------------------|------|
| Nominal voltage  | 3.6V |
| (At 0.1mA +20°C) |      |

|                                                                                                         |       |
|---------------------------------------------------------------------------------------------------------|-------|
| Maximum recommended continuous current                                                                  | 700mA |
| (To get 50% of the nominal capacity at +20°C with 2.0V cut off. Higher currents possible, consult EVE ) |       |

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

|                                                                                                                   |                |
|-------------------------------------------------------------------------------------------------------------------|----------------|
| Operating temperature range                                                                                       | -40°C ~ +145°C |
| (Operation at temperature different from ambient may lead to reduced capacity and lower voltage plateau readings) |                |

|                    |         |
|--------------------|---------|
| Diameter (nominal) | 32.2 mm |
|--------------------|---------|

|                  |         |
|------------------|---------|
| Height (nominal) | 61.5 mm |
|------------------|---------|

|                  |      |
|------------------|------|
| Weigth (nominal) | 108g |
|------------------|------|

|                |      |
|----------------|------|
| Lithium Weight | 3.7g |
|----------------|------|

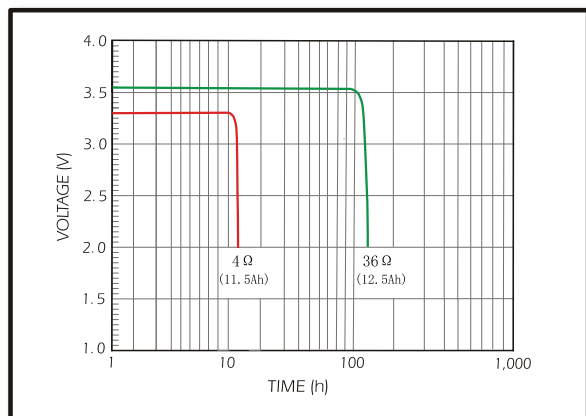
### Storage

- The storage area should be clean, cool(preferably not exceeding +30°C), dry(Relative hunidity not exceeding 70%) and ventilated.

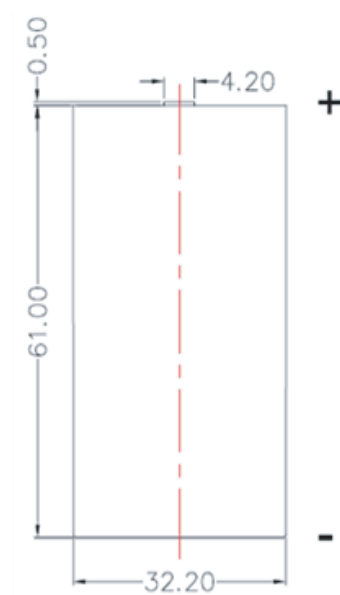
### Warning

- Fire, explosion and burn hazard.
- Do not recharge, short circuit, crush, disassemble, heat above 145°C, incinerate, or expose contents to water.
- Do not solder directly to the cell, use tabbed cell versions instead.

## 1 Discharge characteristics at +145°C

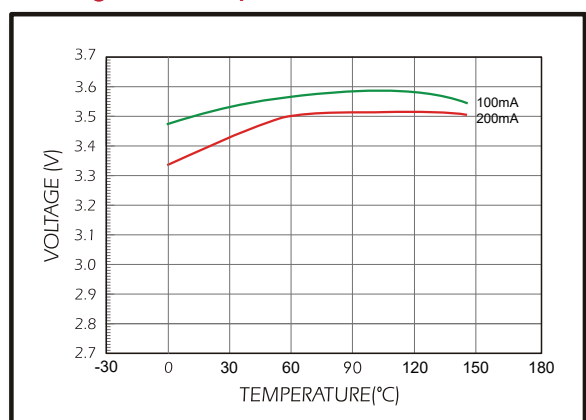


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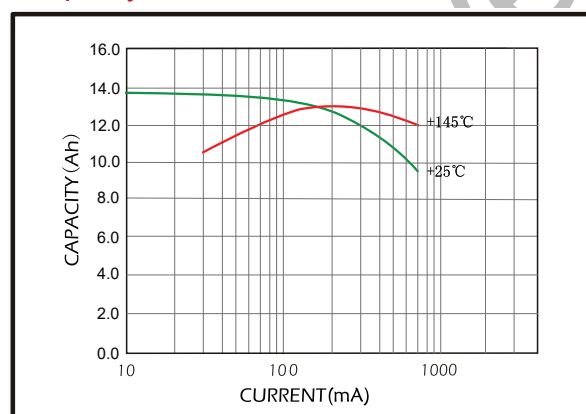


Dimensions in mm  
(for more terminations, consult EVE)

## 2 Voltage VS Temperature



## 3 Capacity VS Current



## 4 Storage characteristics

