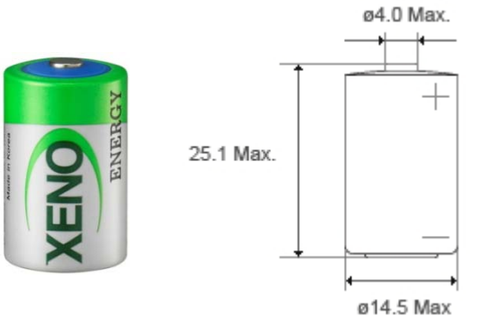
XL-050F

Thionyl Chloride Lithium Battery
SIZE:1/2AA, ER14252

SPECIFICATIONS (Typical values stored at 20℃ for one year)

Nominal capacity (at 1mA/20℃/68˚F/2.0V cut-off)	**1.2Ah**
Nominal voltage	**3.6V**
Max. recommended continuous current (Higher current can be available upon consulting)	**30mA**
Max. pulse current capability ★	**60mA**
Operating temperature range	**-55 ~+85℃**
Lithium metal content	**approx. 0.3g**
Weight	**9g**
Volume	**4.3㎤**
UL Approval	**MH28122**

Max Pulse Capability
Maximum Pulse capability reading over 3.0V at 60mA/0.1sec. every 2 min. at +20℃ , 10㎂ / ㎠ base current with fresh batteries. The pulse capability can be different to the cell status, environment. For max. pulse coverage, capacitor support is recommended.

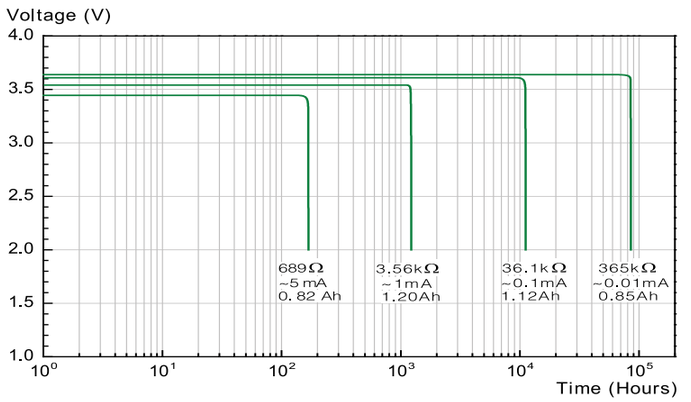


Dimensions in mm

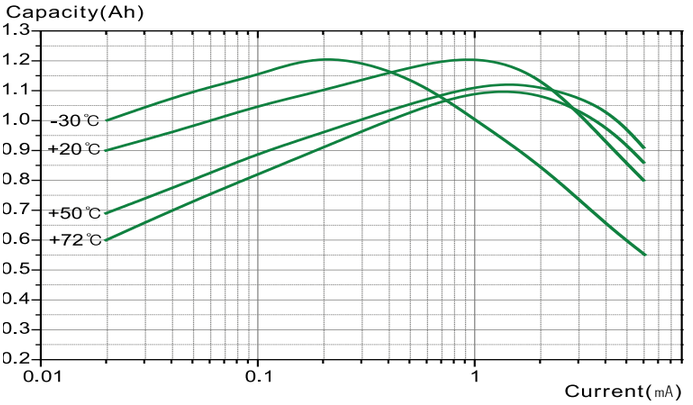
Available Terminal Type
STD, T1, T2, T3, T3/R, T3EU, T3EU/R, AX, Wire, Connector, Case1, Case2

Storage Condition
Please store batteries at clean, cool (not over +30°C), dried (less than 30% RH) and ventilated condition

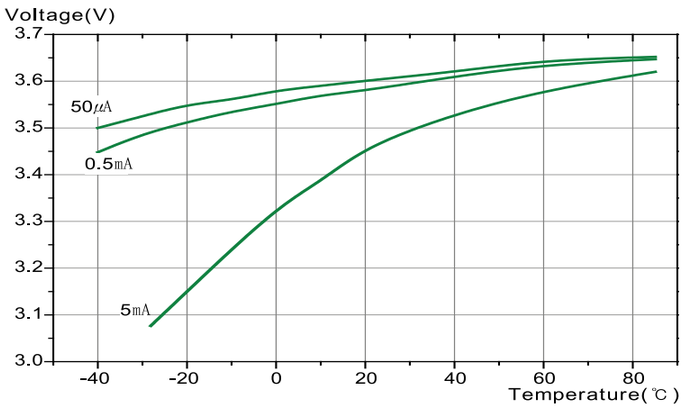
Discharge Characteristics at +20℃



Capacity versus Current



Operating Voltage



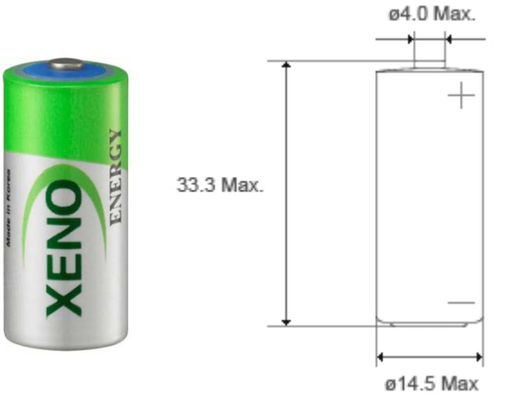
XL-055F

Thionyl Chloride Lithium Battery
SIZE:2/3AA, ER14335

SPECIFICATIONS (Typical values stored at 20℃ for one year)

Nominal capacity (at 1mA/20℃/68˚F/2.0V cut-off)	**1.65Ah**
Nominal voltage	**3.6V**
Max. recommended continuous current (Higher current can be available upon consulting)	**40mA**
Max. pulse current capability ★	**90mA**
Operating temperature range	**-55 ~+85℃**
Lithium metal content	**approx. 0.5g**
Weight	**12g**
Volume	**5.5㎤**
UL Approval	**MH28122**

Max Pulse Capability
Maximum Pulse capability reading over 3.0V at 90mA/0.1sec. every 2 min. at +20℃ , 10㎂ / ㎠ base current with fresh batteries. The pulse capability can be different to the cell status, environment. For max. pulse coverage, capacitor support is recommended.

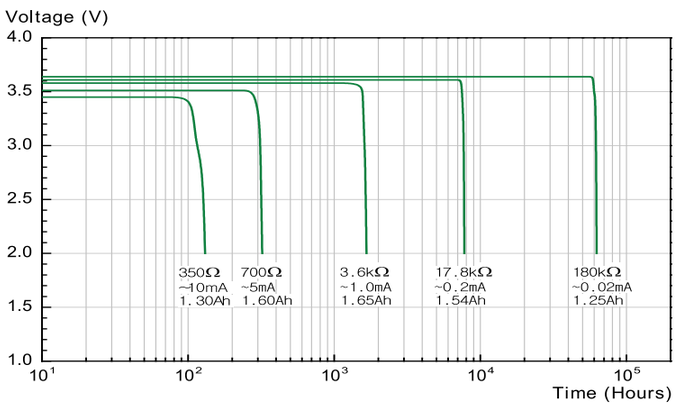


Dimensions in mm

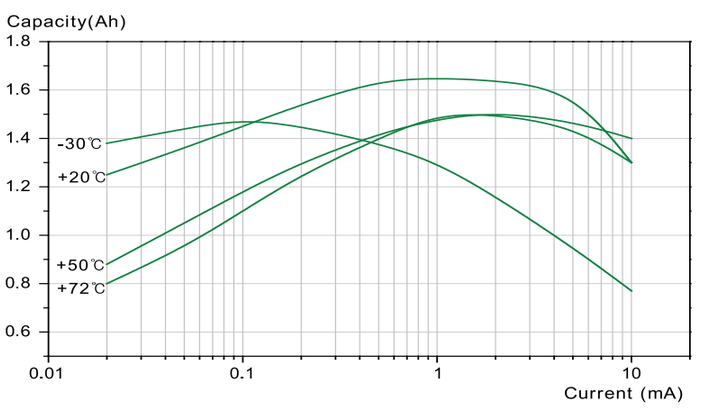
Available Terminal Type
STD, T1, T2, T3, T3/R, T3EU, T3EU/R, AX, Wire, Connector

Storage Condition
Please store batteries at clean, cool (not over +30°C), dried (less than 30% RH) and ventilated condition

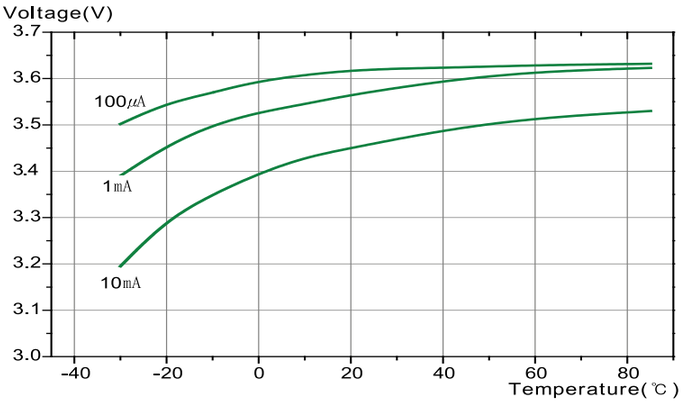
Discharge Characteristics at +20℃



Capacity versus Current



Operating Voltage



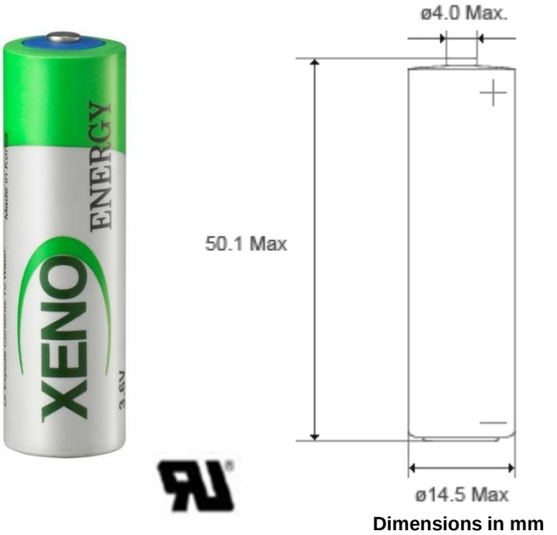
XL-060F

Thionyl Chloride Lithium Battery
SIZE:AA, ER14505

SPECIFICATIONS (Typical values stored at 20℃ for one year)

Nominal capacity (at 2mA/20℃/68˚F/2.0V cut-off)	**2.4Ah**
Nominal voltage	**3.6V**
Max. recommended continuous current (Higher current can be available upon consulting)	**60mA**
Max. pulse current capability ★	**120mA**
Operating temperature range	**-55 ~+85℃**
Lithium metal content	**approx. 0.7g**
Weight	**17g**
Volume	**8.0㎤**
UL Approval	**MH28122**

Max Pulse Capability
Maximum Pulse capability reading over 3.0V at 120mA/0.1sec. every 2 min. at +20℃ , 10㎂ / ㎠ base current with fresh batteries. The pulse capability can be different to the cell status, environment. For max. pulse coverage, capacitor support is recommended.

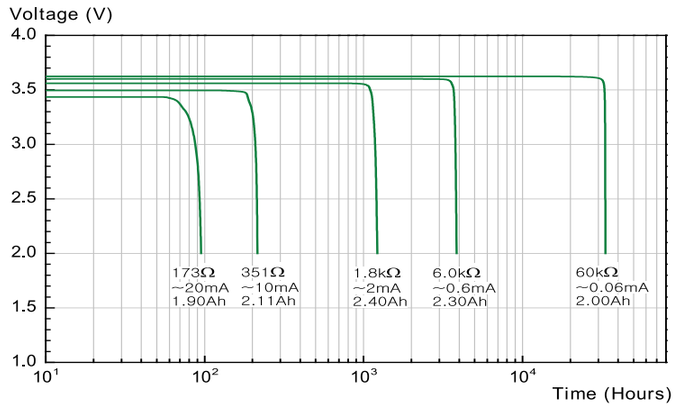


Dimensions in mm

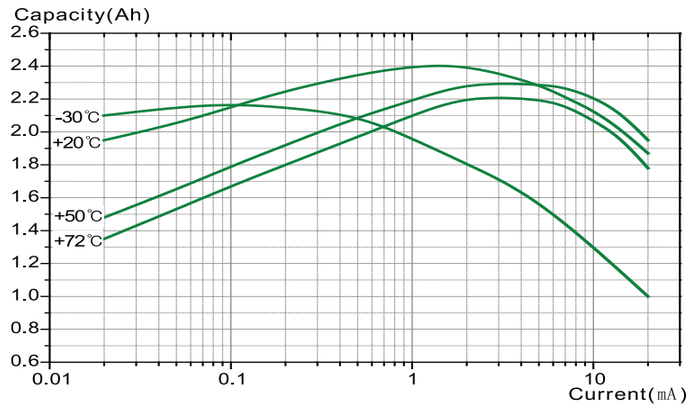
Available Terminal Type
STD, T1, T2, T3, T3/R, T3EU, T3EU/R, AX, Wire, Connector

Storage Condition
Please store batteries at clean, cool (not over +30°C), dried (less than 30% RH) and ventilated condition

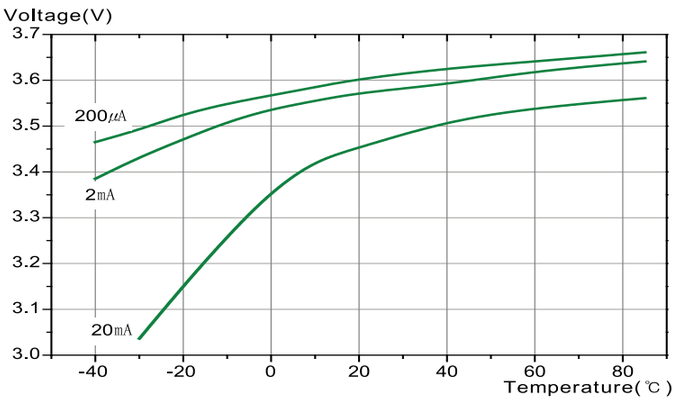
Discharge Characteristics at +20℃



Capacity versus Current



Operating Voltage



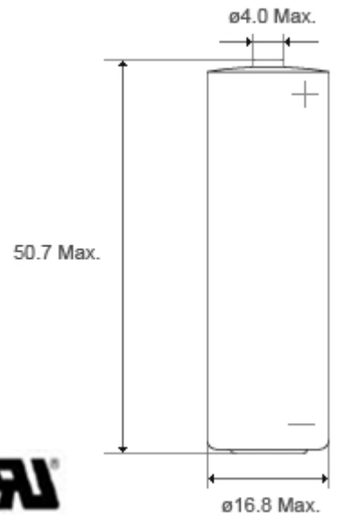
XL-100F

Thionyl Chloride Lithium Battery
SIZE:A, ER17500

SPECIFICATIONS (Typical values stored at 20℃ for one year)

Nominal capacity (at 3mA/20℃/68˚F/2.0V cut-off)	**3.6Ah**
Nominal voltage	**3.6V**
Max. recommended continuous current (Higher current can be available upon consulting)	**100mA**
Max. pulse current capability ★	**200mA**
Operating temperature range	**-55 ~+85℃**
Lithium metal content	**approx. 0.95g**
Weight	**24g**
Volume	**10.6㎤**
UL Approval	**MH28122**

Max Pulse Capability
Maximum Pulse capability reading over 3.0V at 200mA/0.1sec. every 2 min. at +20℃ , 10㎂ / ㎠ base current with fresh batteries. The pulse capability can be different to the cell status, environment. For max. pulse coverage, capacitor support is recommended.

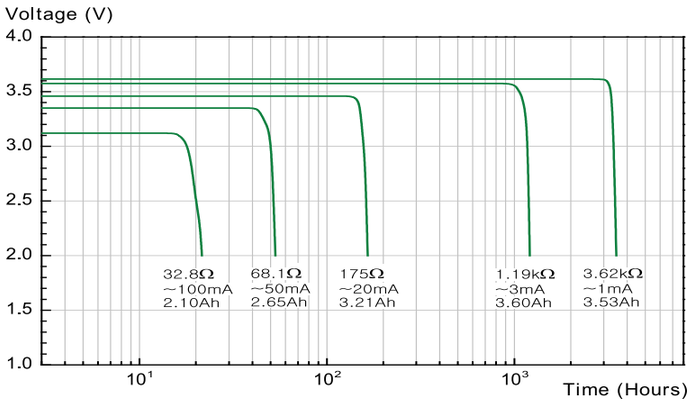


Dimensions in mm

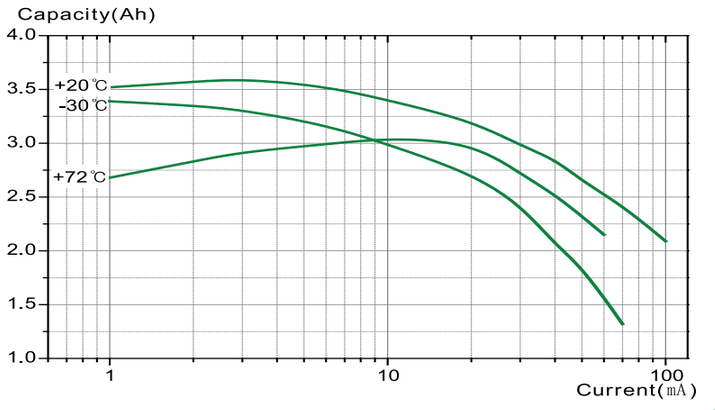
Available Terminal Type
STD, T1, T2, T3, T3, T3/R, T3EU, T3EU/R, AX, Wire, Connector

Storage Condition
Please store batteries at clean, cool (not over +30˚C), dried (less than 30% RH) and ventilated condition

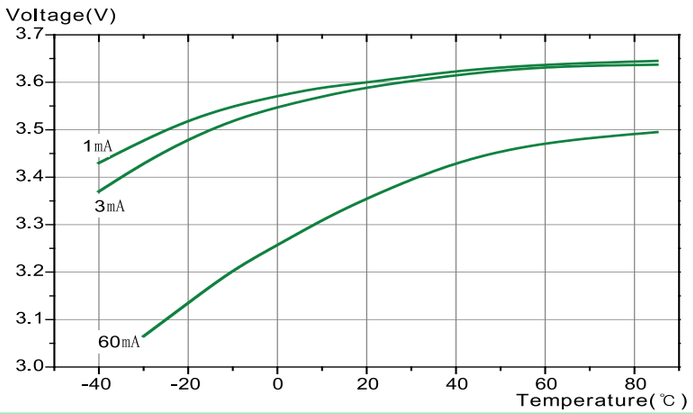
Discharge Characteristics at +20℃



Capacity versus Current



Operating Voltage



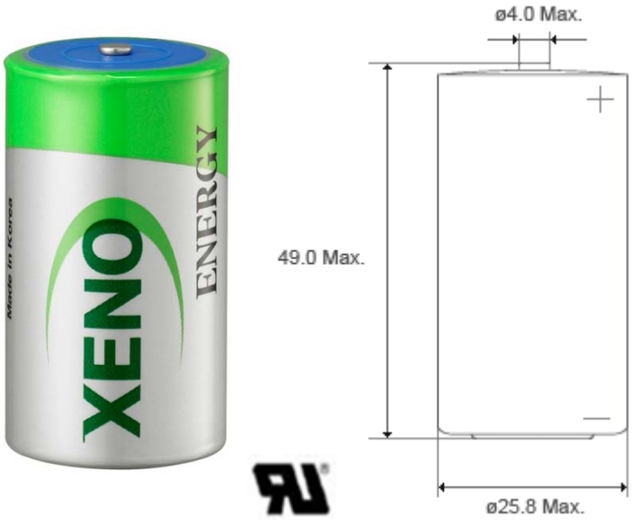
XL-145F

Thionyl Chloride Lithium Battery
SIZE:C, ER26500

SPECIFICATIONS (Typical values stored at 20℃ for one year)

Nominal capacity (at 3mA/20℃/68˚F/2.0V cut-off)	**8.5Ah**
Nominal voltage	**3.6V**
Max. recommended continuous current (Higher current can be available upon consulting)	**150mA**
Max. pulse current capability ★	**230mA**
Operating temperature range	**-55 ~+85℃**
Lithium metal content	**approx. 2.3g**
Weight	**51g**
Volume	**26㎤**
UL Approval	**MH28122**

Max Pulse Capability
Maximum Pulse capability reading over 3.0V at 230mA/0.1sec. every 2 min. at +20℃ , 10㎂ / ㎠ base current with fresh batteries. The pulse capability can be different to the cell status, environment. For max. pulse coverage, capacitor support is recommended.

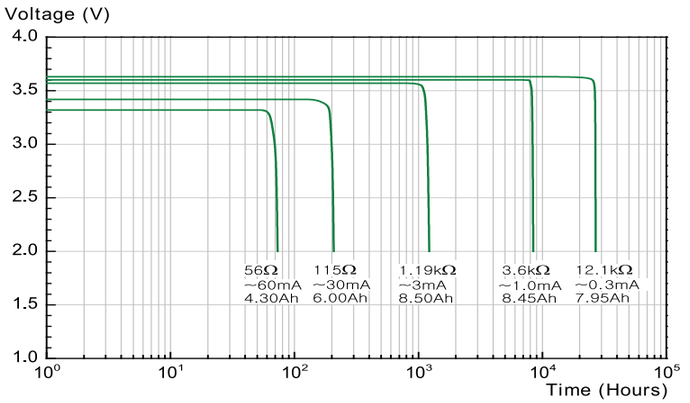


Dimensions in mm

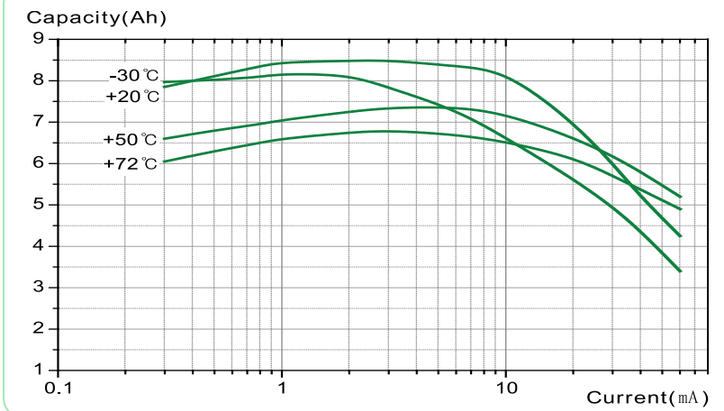
Available Terminal Type
STD, T1, AX, Wire, Connector

Storage Condition
Please store batteries at clean, cool (not over +30˚C), dried (less than 30% RH) and ventilated condition

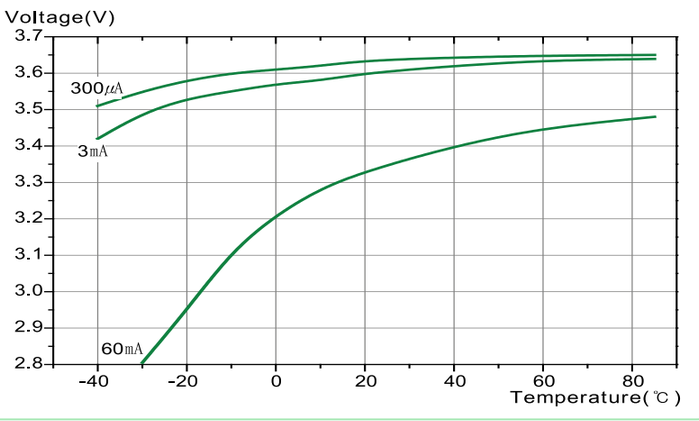
Discharge Characteristics at +20℃



Capacity versus Current



Operating Voltage



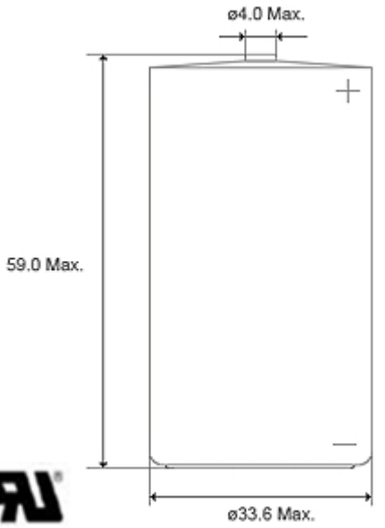
XL-205F

Thionyl Chloride Lithium Battery
SIZE:D, ER32L615

SPECIFICATIONS (Typical values stored at 20℃ for one year)

Nominal capacity (at 5mA/20℃/68˚F/2.0V cut-off)	**19Ah**
Nominal voltage	**3.6V**
Max. recommended continuous current (Higher current can be available upon consulting)	**230mA**
Max. pulse current capability ★	**400mA**
Operating temperature range	**-55 ~+85℃**
Lithium metal content	**approx. 4.8g**
Weight	**98g**
Volume	**51.0㎤**
UL Approval	**MH28122**

Max Pulse Capability
Maximum Pulse capability reading over 3.0V at 400mA/0.1sec. every 2 min. at +20℃ , 10㎂ / ㎠ base current with fresh batteries. The pulse capability can be different to the cell status, environment. For max. pulse coverage, capacitor support is recommended.

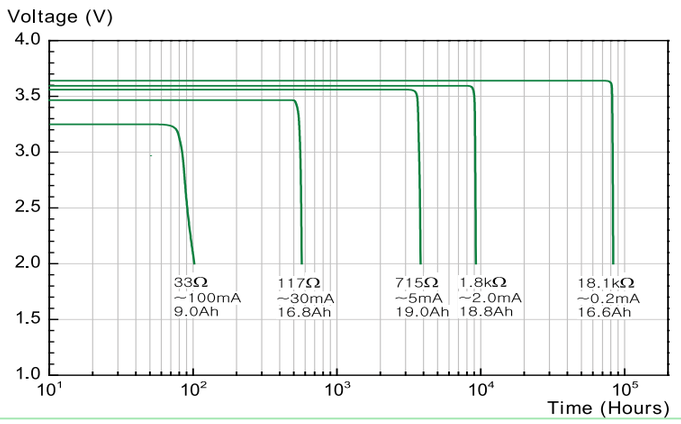


Dimensions in mm

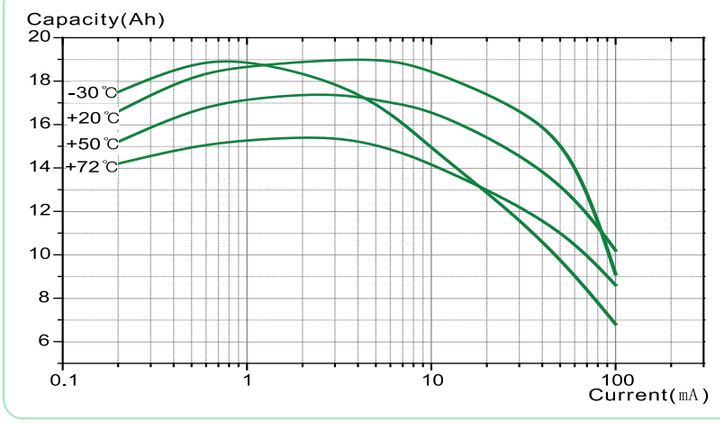
Available Terminal Type
STD, T1, AX, Wire, Connector

Storage Condition
Please store batteries at clean, cool (not over +30˚C), dried (less than 30% RH) and ventilated condition

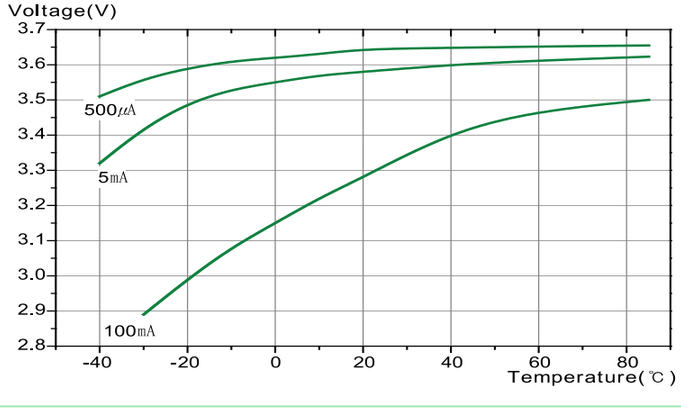
Discharge Characteristics at +20℃



Capacity versus Current



Operating Voltage



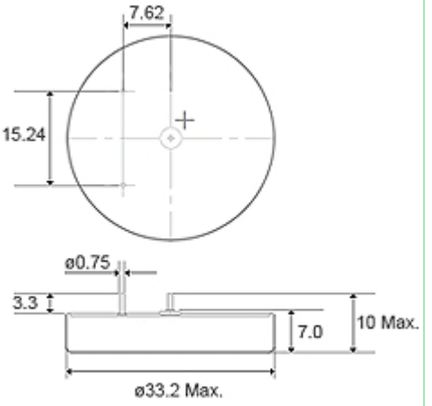
XL-210F

Thionyl Chloride Lithium Battery
SIZE:1/10D, ER32L65

SPECIFICATIONS (Typical values stored at 20℃ for one year)

- **Nominal capacity** 1.0Ah
  (at 1mA/20℃/68˚F/2.0V cut-off)
- **Nominal voltage** 3.6V
- **Max. recommended continuous current** 20mA
  (Higher current can be available upon consulting)
- **Max. pulse current capability** ★ 40mA
- **Operating temperature range** -55 ~+85℃
- **Lithium metal content** approx. 0.3g
- **Weight** 19.2g
- **Volume** 5.6㎤
- **UL Approval** MH28122

Max Pulse Capability
Maximum Pulse capability reading over 3.0V at 40mA/0.1sec. every 2 min. at +20℃ , 10㎂ / ㎠ base current with fresh batteries. The pulse capability can be different to the cell status, environment. For max. pulse coverage, capacitor support is recommended.

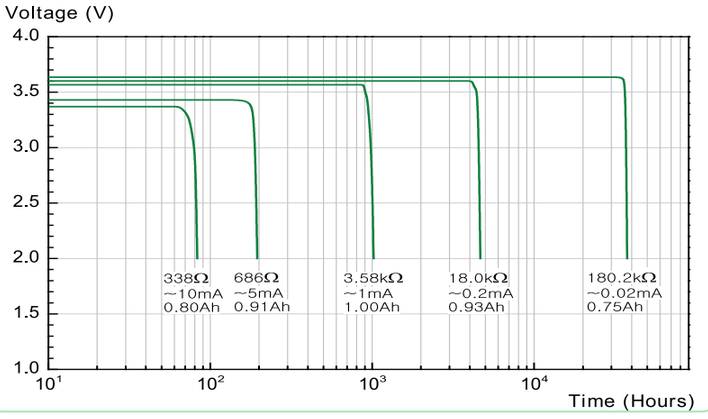


Dimensions in mm

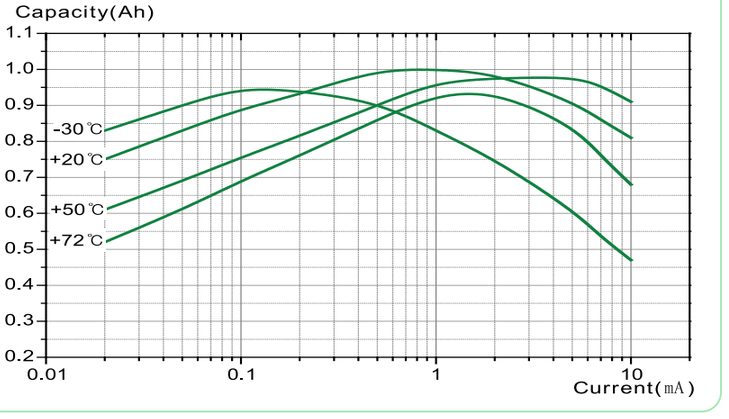
Available Terminal Type
STD (3AX) 3.3 or 5.5mm, NT

Storage Condition
Please store batteries at clean, cool (not over +30°C), dried (less than 30% RH) and ventilated condition

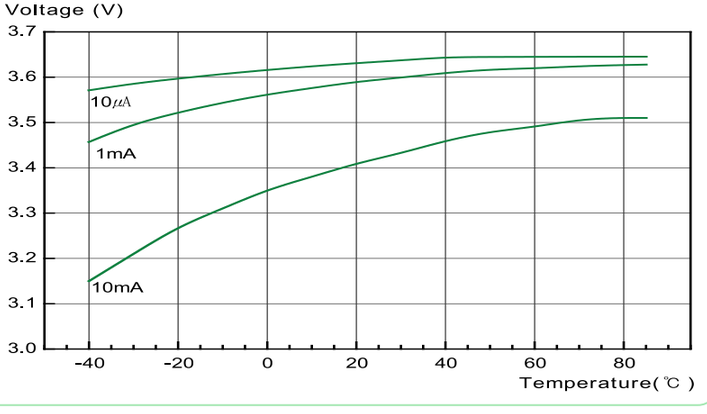
Discharge Characteristics at +20℃



Capacity versus Current



Operating Voltage



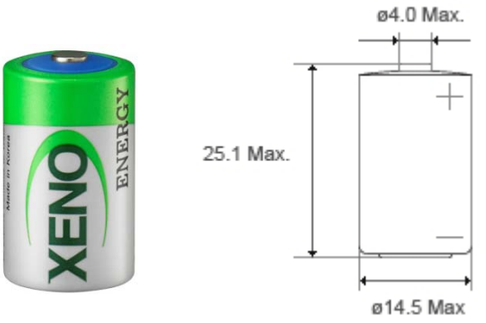
XLP-050F

Thionyl Chloride Lithium Battery
SIZE:1/2AA, ER14252

SPECIFICATIONS (Typical values stored at 20℃ for one year)

Nominal capacity (at 1mA/20℃/68˚F/2.0V cut-off)	**1.2Ah**
Nominal voltage	**3.6V**
Max. recommended continuous current (Higher current can be available upon consulting)	**30mA**
Max. pulse current capability ★	**100mA**
Operating temperature range	**-55 ~+85℃**
Lithium metal content	**approx. 0.3g**
Weight	**9g**
Volume	**4.3㎤**
UL Approval	**MH28122**

Max Pulse Capability
Maximum Pulse capability reading over 3.0V at 100mA/0.1sec. every 2 min. at +20℃ , 10㎂ / ㎠ base current with fresh batteries. The pulse capability can be different to the cell status, environment. For max. pulse coverage, capacitor support is recommended.

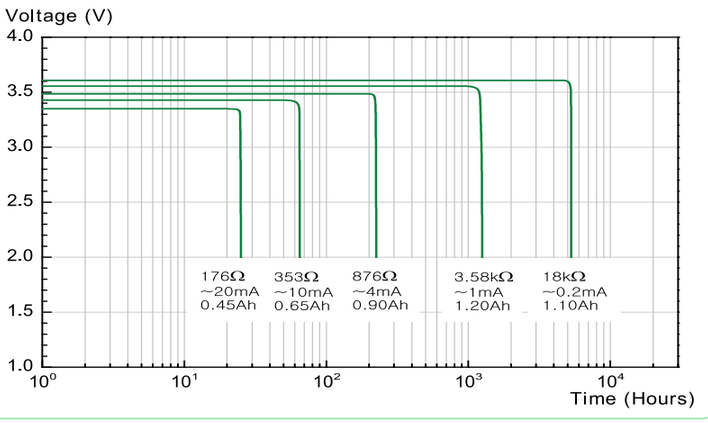


Dimensions in mm

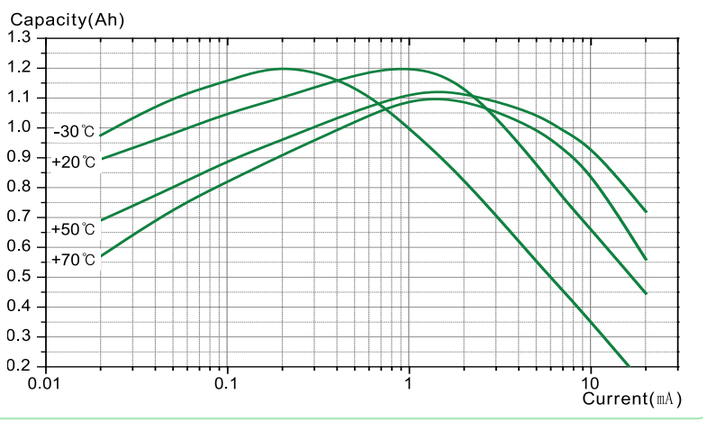
Available Terminal Type
STD, T1, T2, T3, T3/R, T3EU, T3EU/R, AX, Wire, Connector, Case1, Case2

Storage Condition
Please store batteries at clean, cool (not over +30˚C), dried (less than 30% RH) and ventilated condition

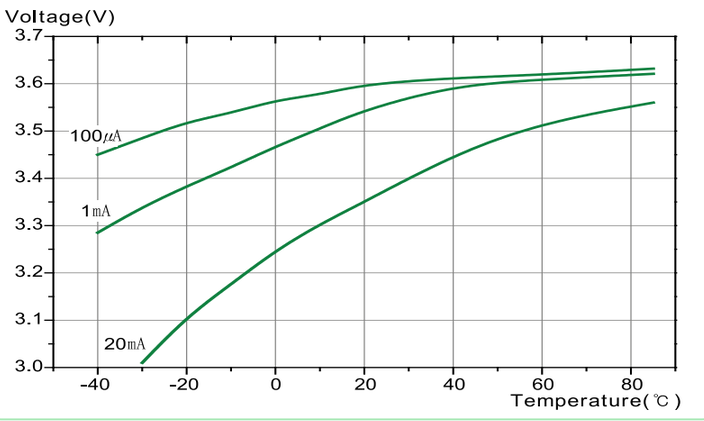
Discharge Characteristics at +20℃



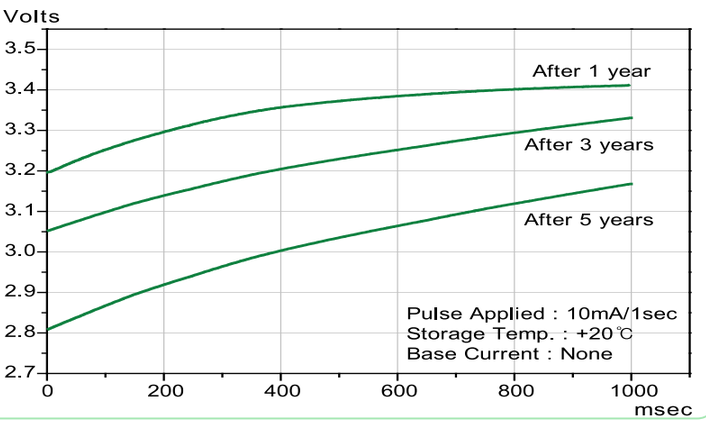
Capacity versus Current



Operating Voltage



Voltage Recovery after Long Storage



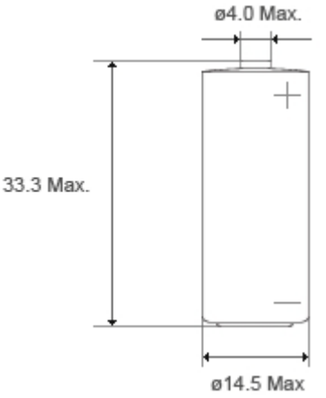
XLP-055F

Thionyl Chloride Lithium Battery
SIZE:2/3AA, ER14335

SPECIFICATIONS (Typical values stored at 20℃ for one year)

Nominal capacity (at 1mA/20℃/68˚F/2.0V cut-off)	**1.65Ah**
Nominal voltage	**3.6V**
Max. recommended continuous current (Higher current can be available upon consulting)	**40mA**
Max. pulse current capability ★	**150mA**
Operating temperature range	**-55 ~+85℃**
Lithium metal content	**approx. 0.5g**
Weight	**12g**
Volume	**5.5㎤**
UL Approval	**MH28122**

Max Pulse Capability
Maximum Pulse capability reading over 3.0V at 150mA/0.1sec. every 2 min. at +20℃ , 10㎂ / ㎠ base current with fresh batteries. The pulse capability can be different to the cell status, environment. For max. pulse coverage, capacitor support is recommended.

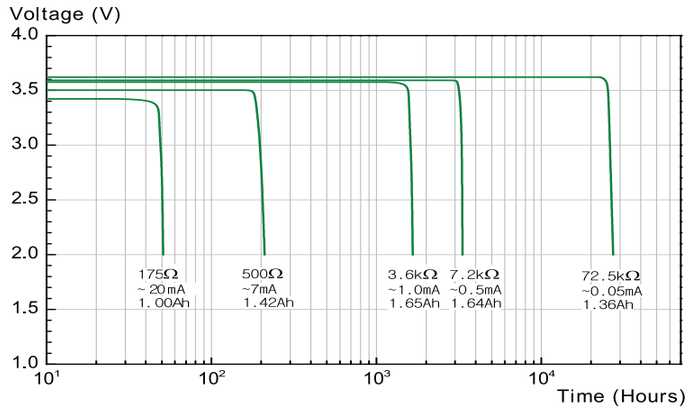


Dimensions in mm

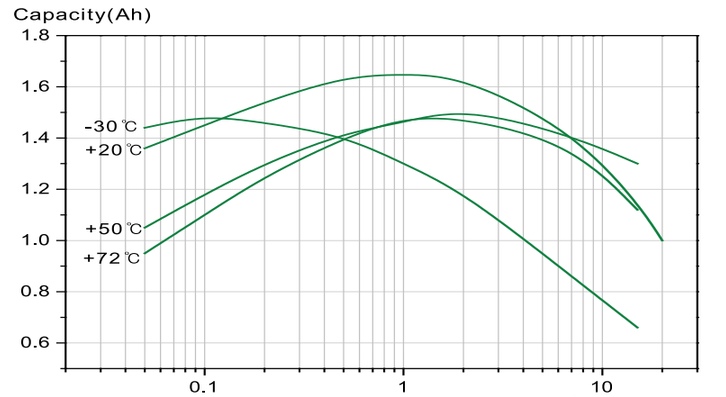
Available Terminal Type
STD, T1, T2, T3, T3/R, T3EU, T3EU/R, AX, Wire, Connector

Storage Condition
Please store batteries at clean, cool (not over +30°C), dried (less than 30% RH) and ventilated condition

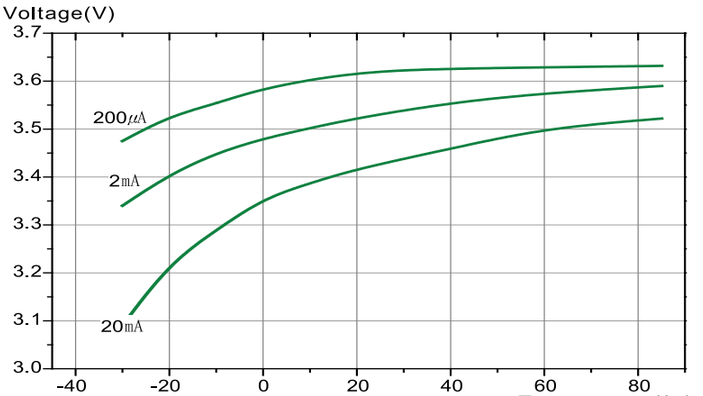
Discharge Characteristics at +20℃



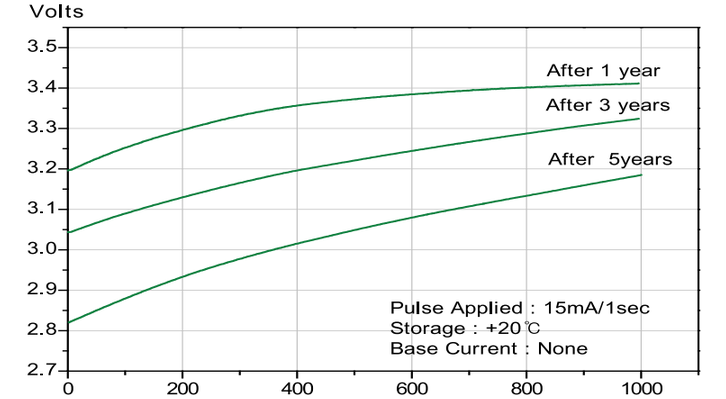
Capacity versus Current



Operating Voltage



Voltage Recovery after Long Storage



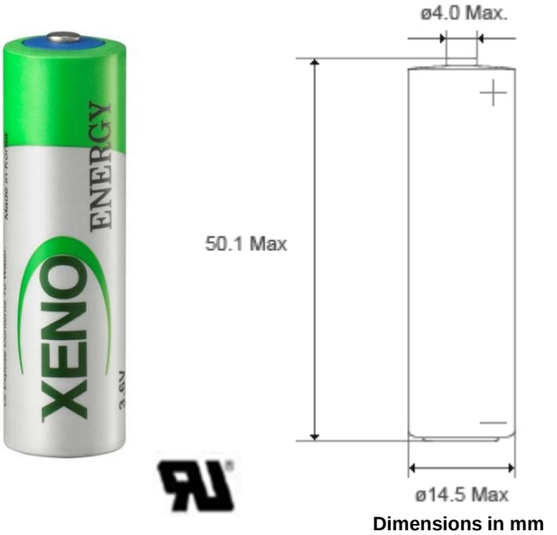
XLP-060F

Thionyl Chloride Lithium Battery
SIZE:AA, ER14505

SPECIFICATIONS (Typical values stored at 20℃ for one year)

Nominal capacity (at 2mA/20℃/68˚F/2.0V cut-off)	**2.4Ah**
Nominal voltage	**3.6V**
Max. recommended continuous current (Higher current can be available upon consulting)	**60mA**
Max. pulse current capability ★	**200mA**
Operating temperature range	**-55 ~+85℃**
Lithium metal content	**approx. 0.7g**
Weight	**17g**
Volume	**8.0㎤**
UL Approval	**MH28122**

Max Pulse Capability
Maximum Pulse capability reading over 3.0V at 200mA/0.1sec. every 2 min. at +20℃ , 10㎂ / ㎠ base current with fresh batteries. The pulse capability can be different to the cell status, environment. For max. pulse coverage, capacitor support is recommended.

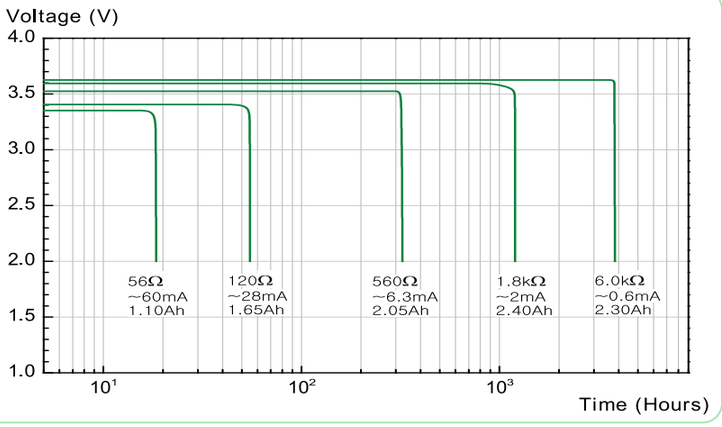


Dimensions in mm

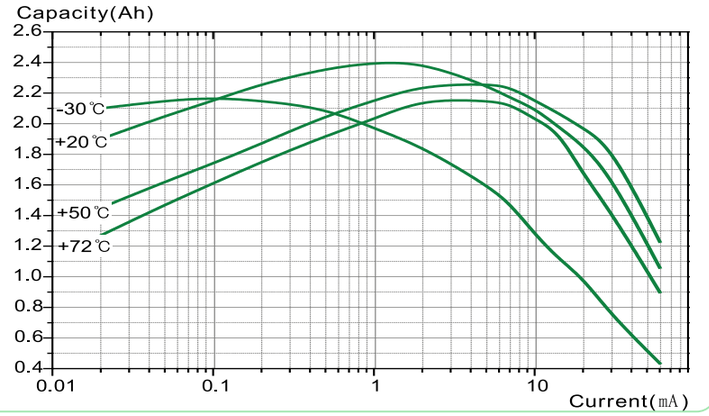
Available Terminal Type
STD, T1, T2, T3, T3/R, T3EU, T3EU/R, AX, Wire, Connector

Storage Condition
Please store batteries at clean, cool (not over +30°C), dried (less than 30% RH) and ventilated condition

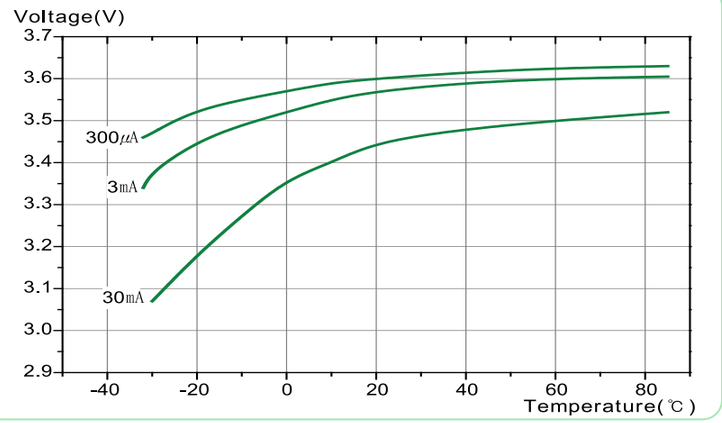
Discharge Characteristics at +20℃



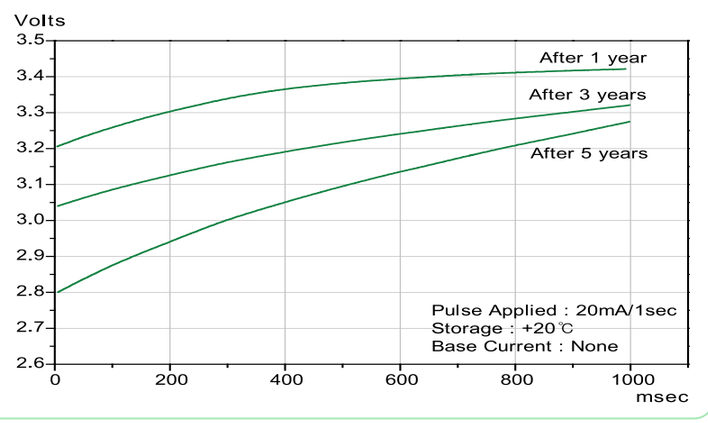
Capacity versus Current



Operating Voltage



Voltage Recovery after Long Storage

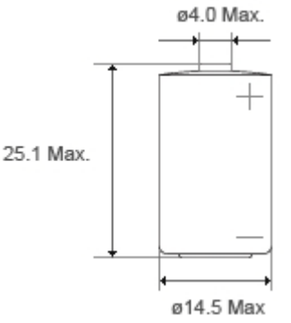


XL-050H

Thionyl Chloride Lithium Battery
SIZE:1/2AA, ER14252

SPECIFICATIONS (Typical values stored at 20℃ for one year)

Nominal capacity (at 0.6mA/85℃/185°F/2.0V cut-off)	**0.8Ah**
Nominal voltage	**3.6V**
Max. recommended continuous current	**10mA**
Operating temperature range	**-55 ~+130℃ (Max. 150℃)**
Lithium metal content	**approx. 0.3g**
Weight	**9g**
Volume	**4.3㎤**
UL Approval	**MH28122**

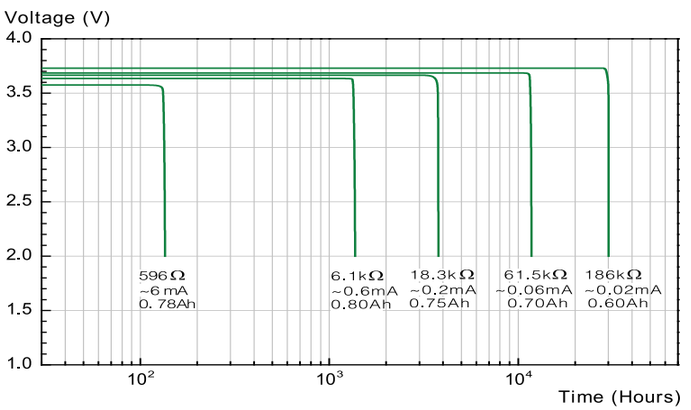


Dimensions in mm

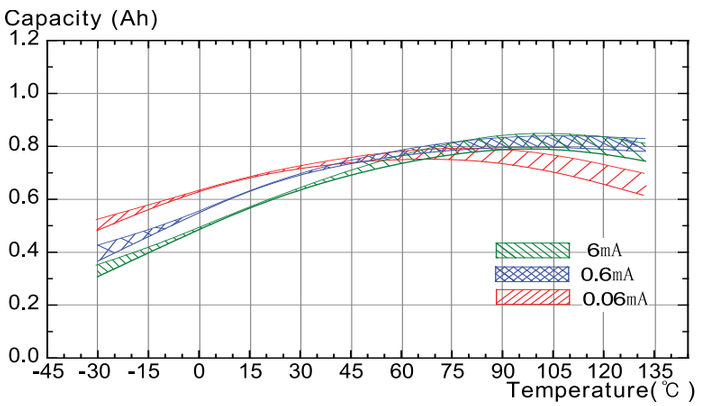
Available Terminal Type
STD, T1, T2, T3, T3/R, T3EU, T3EU/R, AX

Storage Condition
Please store batteries at clean, cool (not over +30°C), dried (less than 30% RH) and ventilated condition

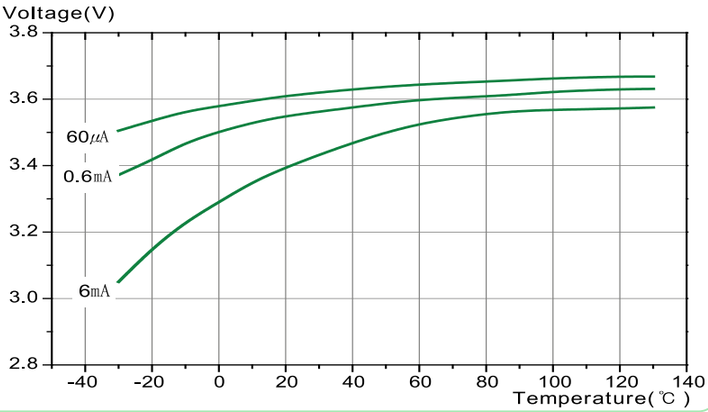
Discharge Characteristics at +85℃



Capacity versus Current



Operating Voltage

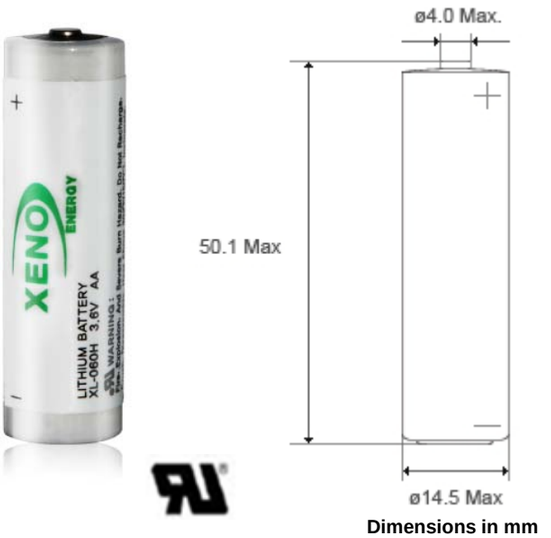


XL-060H

Thionyl Chloride Lithium Battery
SIZE:AA, ER14505

SPECIFICATIONS (Typical values stored at 20℃ for one year)

Nominal capacity (at 2mA/85℃/185°F/2.0V cut-off)	**1.7Ah**
Nominal voltage	**3.6V**
Max. recommended continuous current	**30mA**
Operating temperature range	**-55 ~+130℃ (Max. 150℃)**
Lithium metal content	**approx. 0.7g**
Weight	**17g**
Volume	**8.0㎤**
UL Approval	**MH28122**



Dimensions in mm

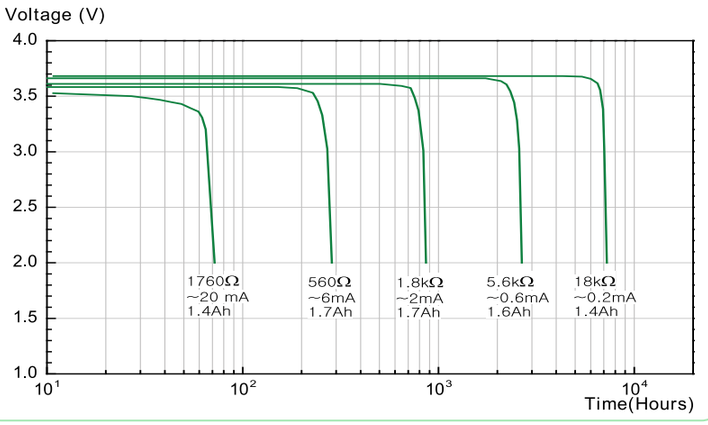
Available Terminal Type

STD, T1, T2, T3, T3/R, T3EU, T3EU/R, AX

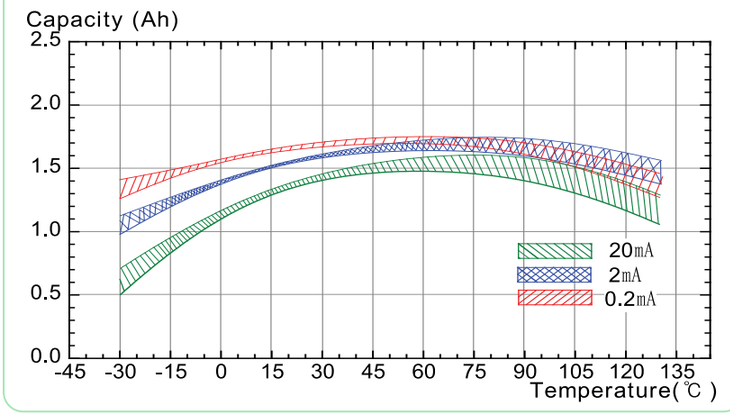
Storage Condition

Please store batteries at clean, cool (not over +30°C), dried (less than 30% RH) and ventilated condition

Discharge Characteristics at +85℃



Capacity versus Current



Operating Voltage