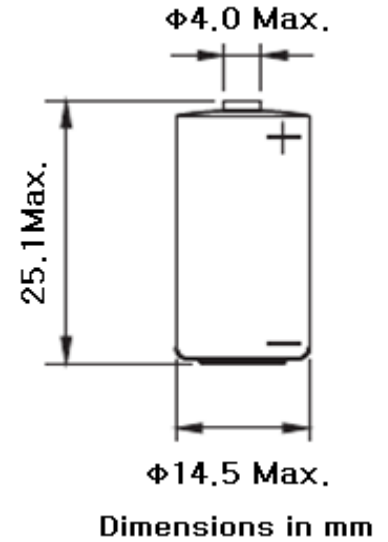


## SPECIFICATIONS

(Typical values stored at 20°C for one year)

|  |                    |
|--|--------------------|
| ◆ Nominal capacity<br>(at 1mA/20°C/68°F/2.0V cut-off)                                      | 1.2Ah              |
| ◆ Nominal voltage  | 3.6V               |
| ◆ Max. recommended continuous current<br>(Higher current can be available upon consulting) | 30mA               |
| ◆ Max. pulse current capability ★  | 60mA               |
| ◆ Operating temperature range  | -55 ~+85°C         |
| ◆ Lithium metal content  | approx. 0.3g       |
| ◆ Weight   | 9g                 |
| ◆ Volume   | 4.3cm <sup>3</sup> |
| ◆ UL Approval  | MH28122            |



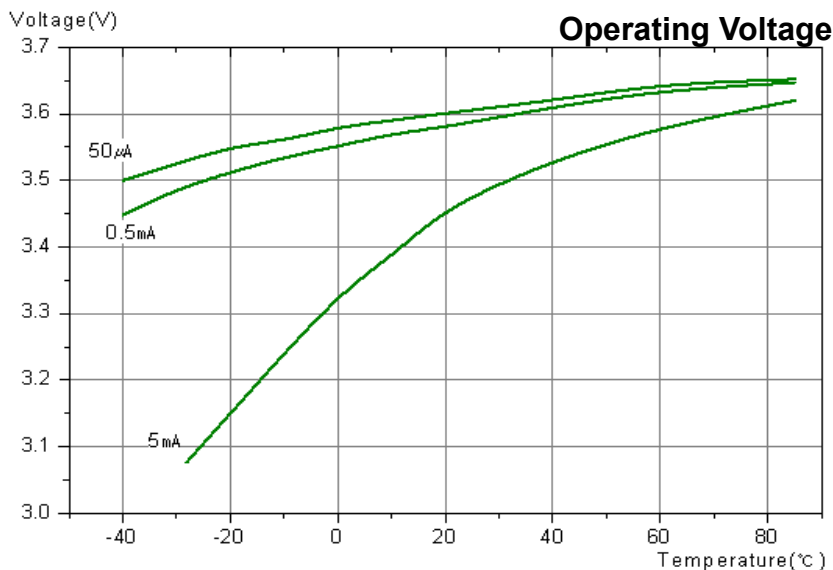
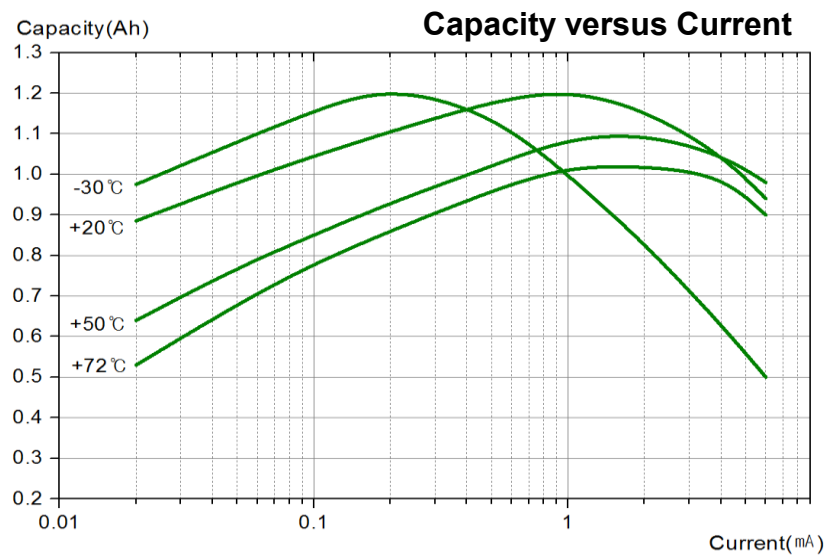
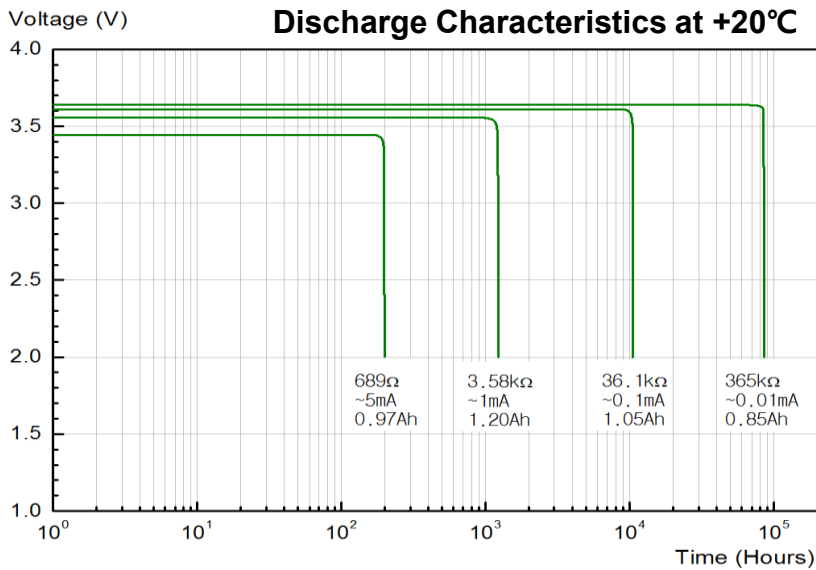
### Available Terminal Type

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), dry and ventilated condition

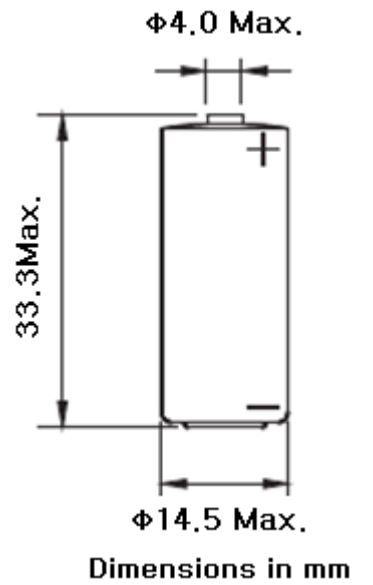
**Max Pulse Capability:** Maximum Pulse capability reading over 3.0V at 60mA/0.1sec. every 2 min. at +20°C, 10μA / cm<sup>2</sup> base current with fresh batteries. The pulse capability can be different to the cell status, environment. For max. pulse coverage, capacitor support is recommended.



## SPECIFICATIONS

(Typical values stored at 20°C for one year)

|  |                    |
|--|--------------------|
| ◆ Nominal capacity<br>(at 1mA/20°C/68°F/2.0V cut-off)                                      | 1.65Ah             |
| ◆ Nominal voltage  | 3.6V               |
| ◆ Max. recommended continuous current<br>(Higher current can be available upon consulting) | 40mA               |
| ◆ Max. pulse current capability ★  | 90mA               |
| ◆ Operating temperature range  | -55 ~ +85°C        |
| ◆ Lithium metal content  | approx. 0.5g       |
| ◆ Weight   | 12g                |
| ◆ Volume   | 5.5cm <sup>3</sup> |
| ◆ UL Approval  | MH28122            |



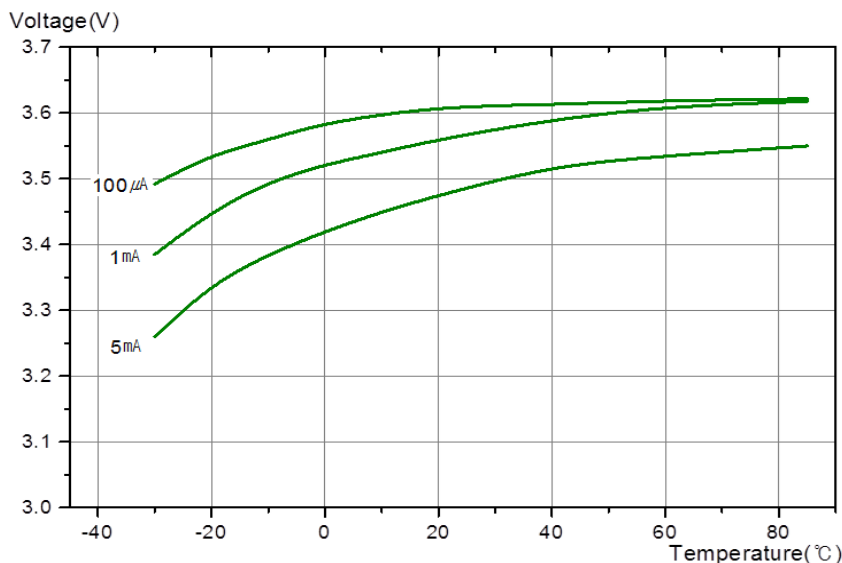
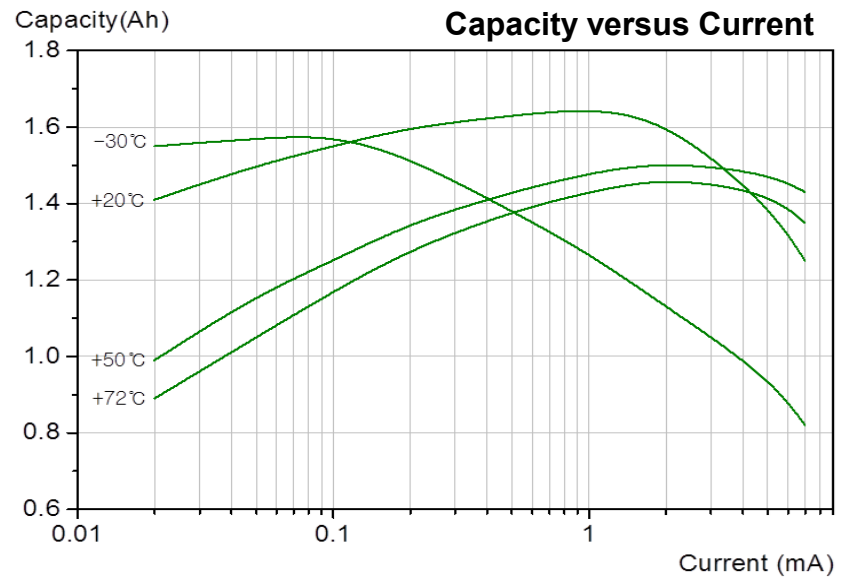
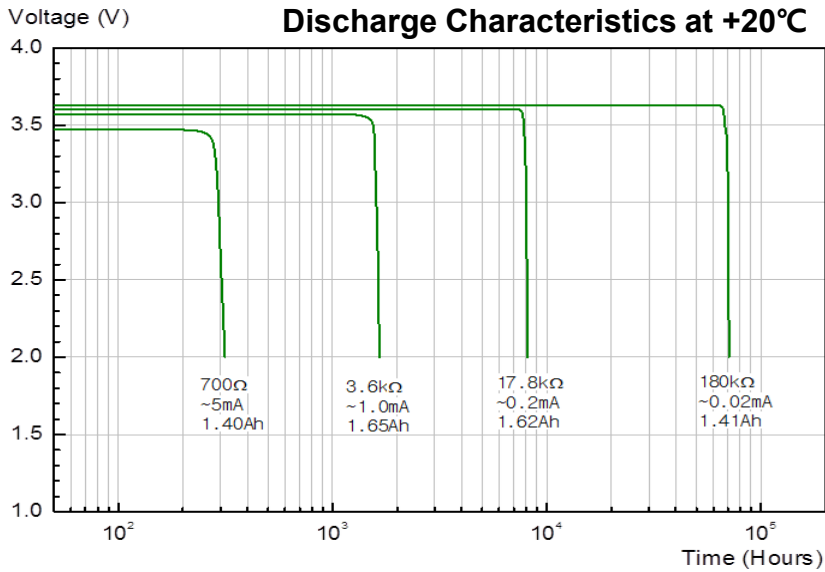
### Available Terminal Type

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

### Storage Condition

Please store batteries at clean, cool (not over +30°C), dry and ventilated condition

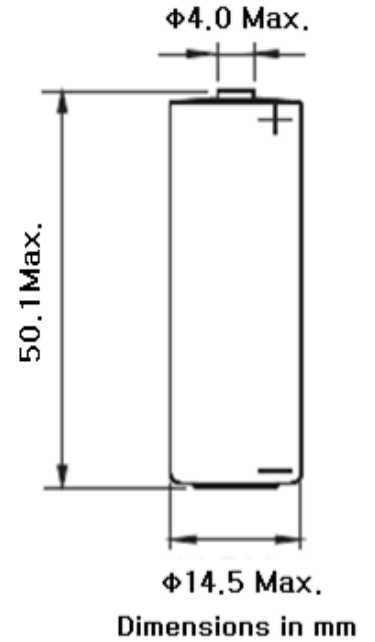
**Max Pulse Capability:** Maximum Pulse capability reading over 3.0V at 90mA/0.1sec. every 2 min. at +20°C, 10μA/cm<sup>2</sup> base current with fresh batteries. The pulse capability can be different to the cell status, environment. For max. pulse coverage, capacitor support is recommended.



## SPECIFICATIONS

(Typical values stored at 20°C for one year)

|   |                    |
|---|--------------------|
| ◆ Nominal capacity                                | 2.6Ah              |
| (at 1mA/20°C/68°F/2.0V cut-off)                   |                    |
| ◆ Nominal voltage                                 | 3.6V               |
| ◆ Max. recommended continuous current             | 60mA               |
| (Higher current can be available upon consulting) |                    |
| ◆ Max. pulse current capability ★                 | 120mA              |
| ◆ Operating temperature range                     | -55 ~+85°C         |
| ◆ Lithium metal content                           | approx. 0.7g       |
| ◆ Weight  | 17g                |
| ◆ Volume  | 8.0cm <sup>3</sup> |
| ◆ UL Approval                                     | MH28122            |



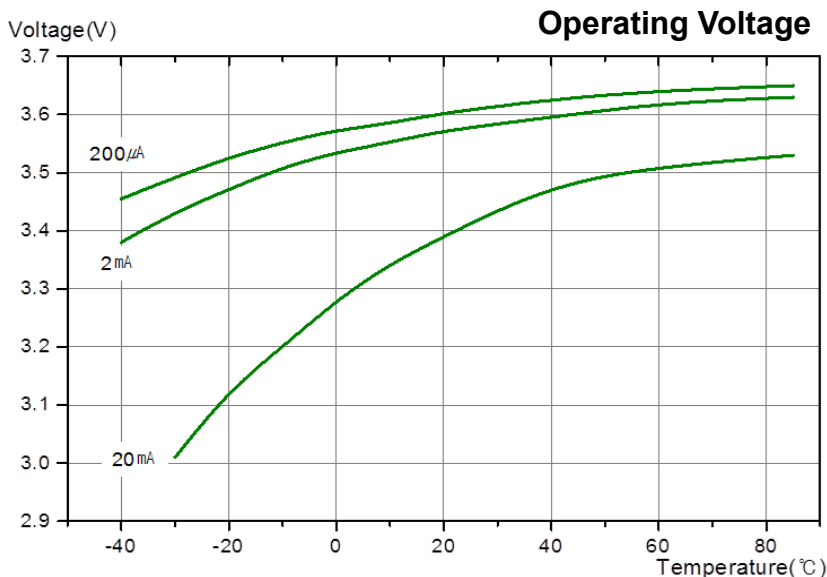
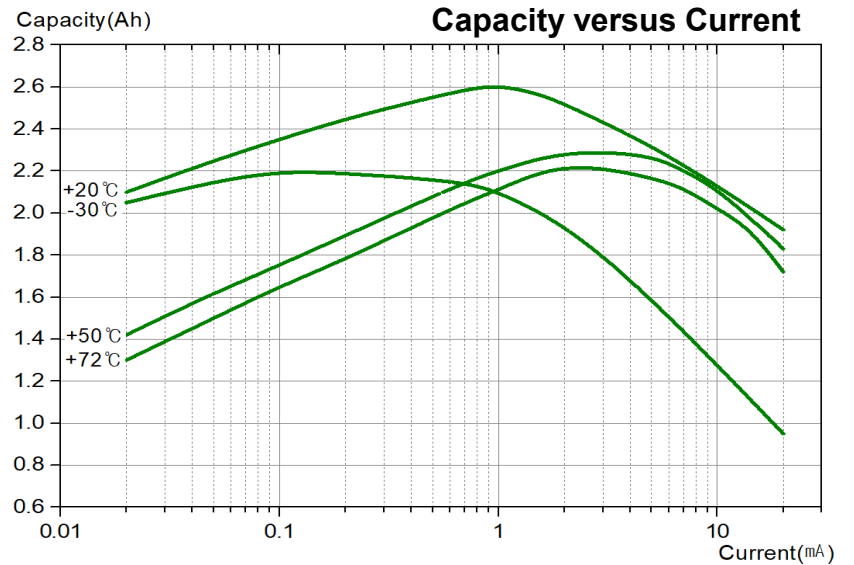
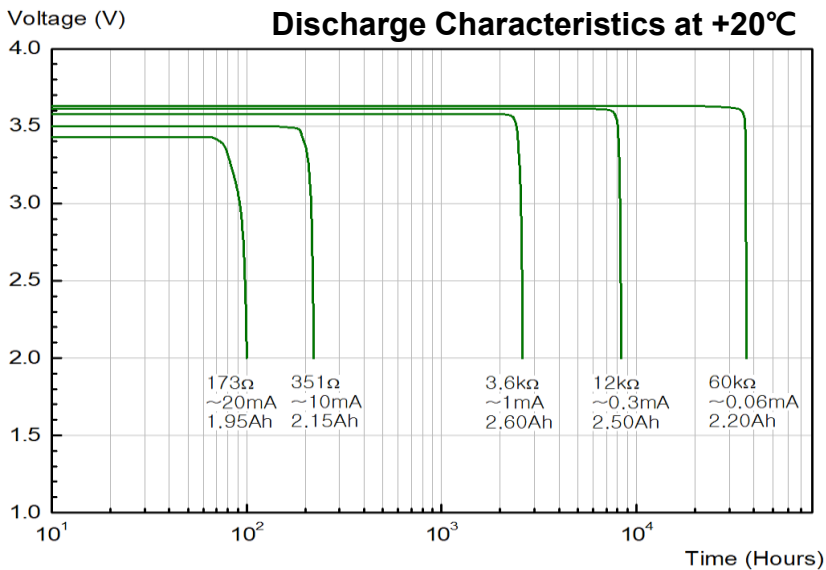
### Available Terminal Type

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

### Storage Condition

Please store batteries at clean, cool (not over +30°C), dry and ventilated condition

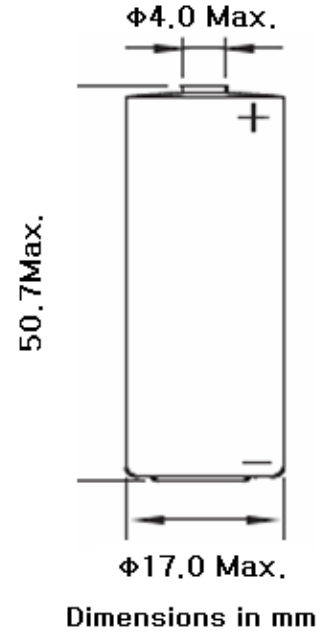
**Max Pulse Capability:** Maximum Pulse capability reading over 3.0V at 120mA/0.1sec. every 2 min. at +20°C, 10μA/cm<sup>2</sup> base current with fresh batteries. The pulse capability can be different to the cell status, environment. For max. pulse coverage, capacitor support is recommended.



## SPECIFICATIONS

(Typical values stored at 20°C for one year)

|  |                     |
|--|---------------------|
| ◆ Nominal capacity<br>(at 3.0mA/20°C/68°F/2.0V cut-off)                                    | 3.6Ah               |
| ◆ Nominal voltage  | 3.6V                |
| ◆ Max. recommended continuous current<br>(Higher current can be available upon consulting) | 60mA                |
| ◆ Max. pulse current capability ★  | 150mA               |
| ◆ Operating temperature range  | -55 ~ +85°C         |
| ◆ Lithium metal content  | approx. 0.95g       |
| ◆ Weight   | 24g                 |
| ◆ Volume   | 10.6cm <sup>3</sup> |
| ◆ UL Approval  | MH28122             |



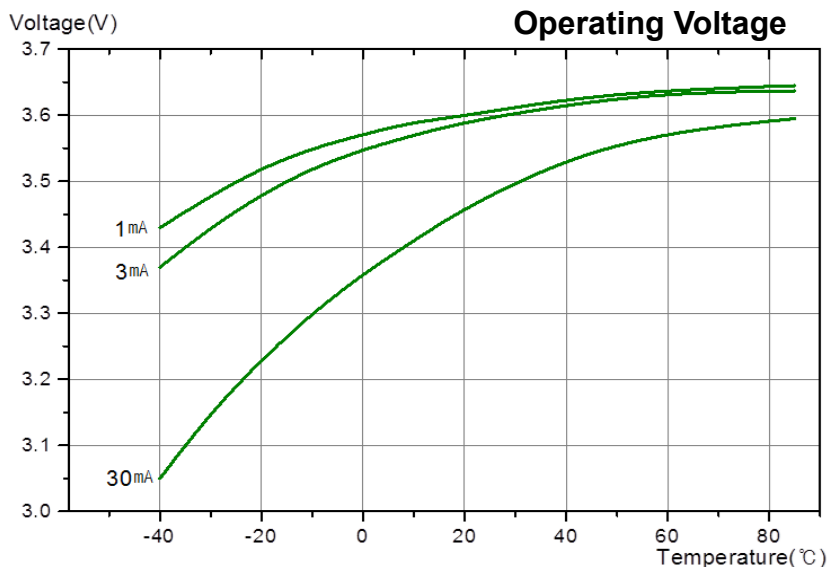
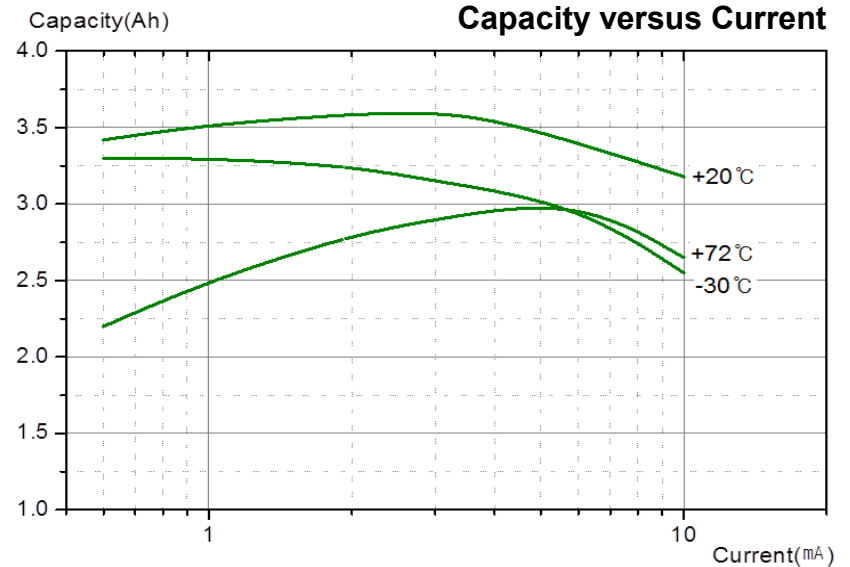
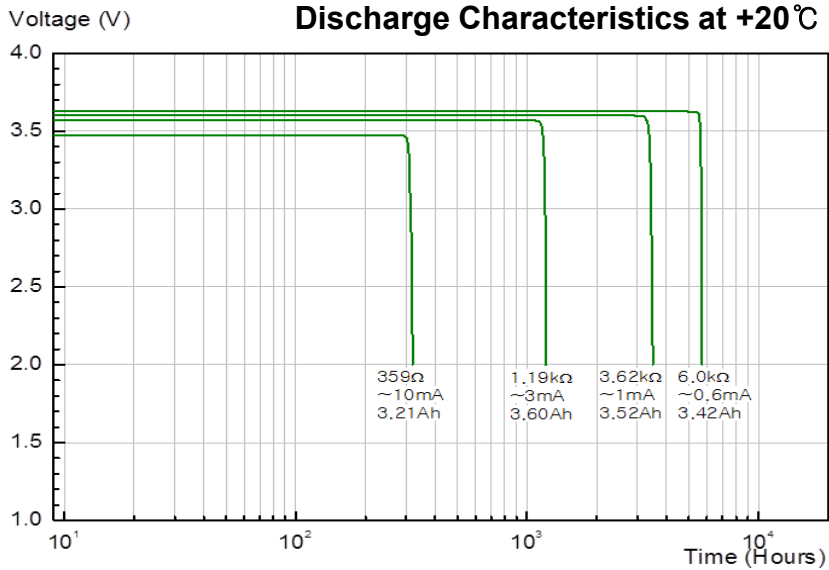
### Available Terminal Type

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

### Storage Condition

Please store batteries at clean, cool (not over +30°C), dry and ventilated condition

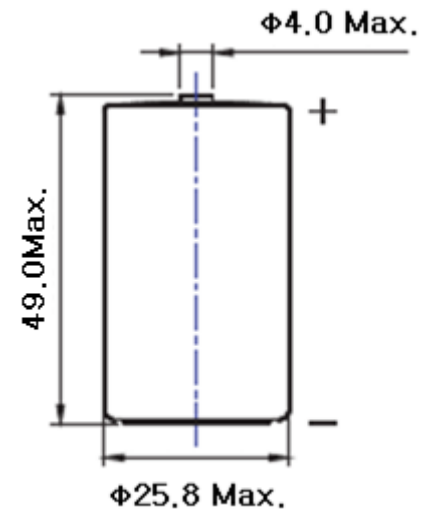
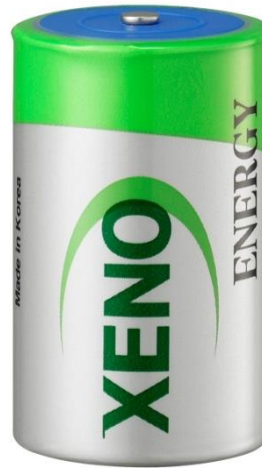
**Max Pulse Capability:** Maximum Pulse capability reading over 3.0V at 150mA/0.1sec. every 2 min. at +20°C, 10μA/cm<sup>2</sup> base current with fresh batteries. The pulse capability can be different to the cell status, environment. For max. pulse coverage, capacitor support is recommended.



## SPECIFICATIONS

(Typical values stored at 20°C for one year)

|  |                   |
|--|-------------------|
| ◆ Nominal capacity<br>(at 3mA/20°C/68°F/2.0V cut-off)                                      | 8.5Ah             |
| ◆ Nominal voltage  | 3.6V              |
| ◆ Max. recommended continuous current<br>(Higher current can be available upon consulting) | 150mA             |
| ◆ Max. pulse current capability ★  | 230mA             |
| ◆ Operating temperature range  | -55 ~ +85°C       |
| ◆ Lithium metal content  | approx. 2.3g      |
| ◆ Weight   | 50g               |
| ◆ Volume   | 26cm <sup>3</sup> |
| ◆ UL Approval  | MH28122           |



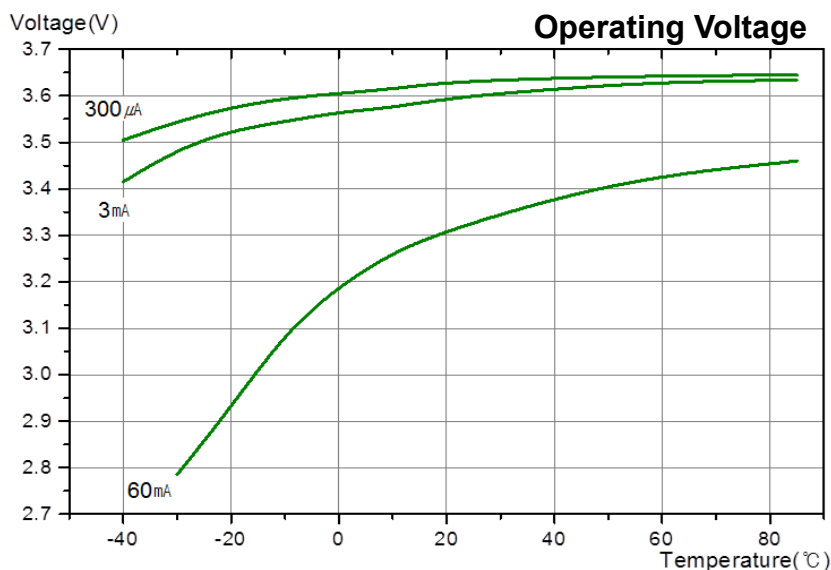
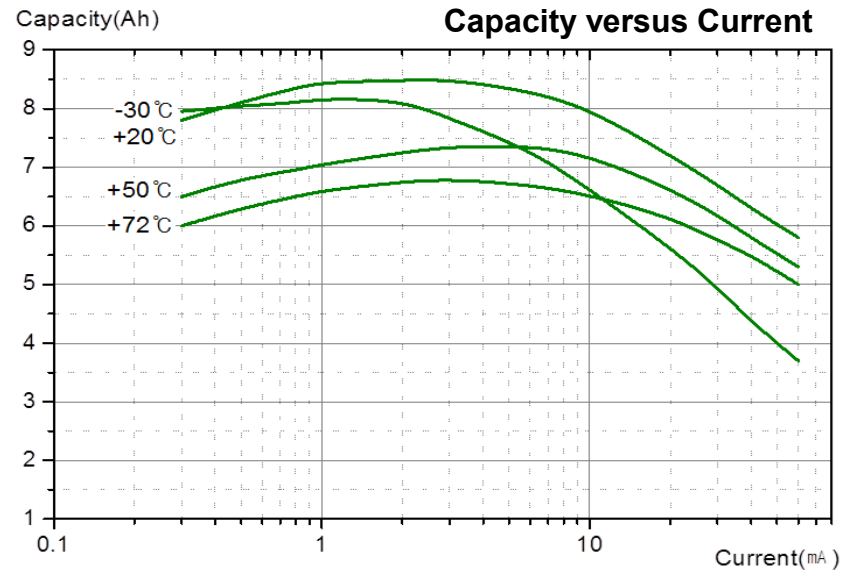
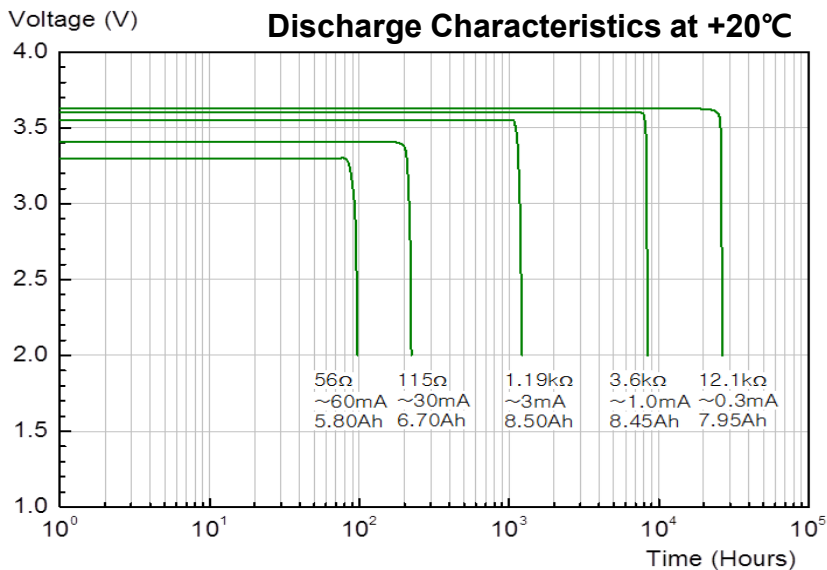
Dimensions in mm

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

### Storage Condition

Please store batteries at clean, cool (not over +30°C), dry and ventilated condition

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

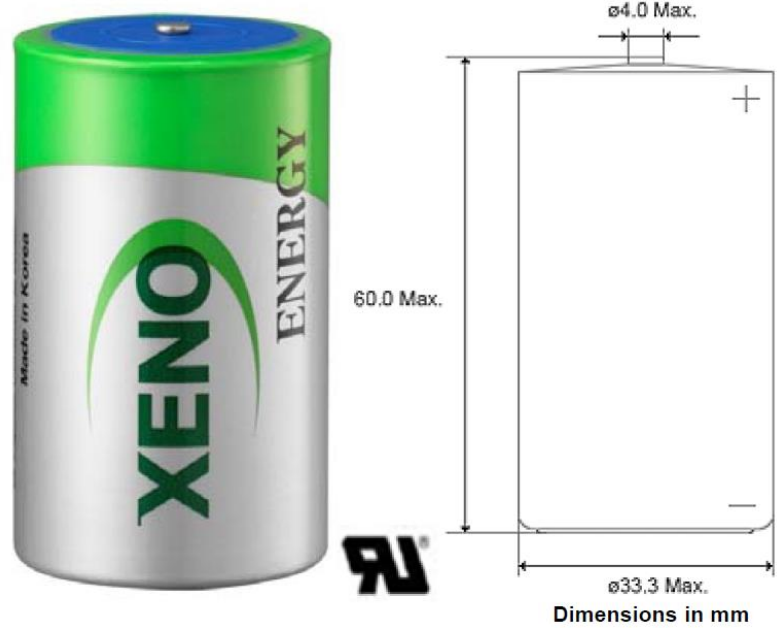




## SPECIFICATIONS

(Typical values stored at 20°C for one year)

|   |                     |
|---|---------------------|
| ◆ Nominal capacity                                | 19Ah                |
| (at 5mA/20°C/68°F/2.0V cut-off)                   |                     |
| ◆ Nominal voltage                                 | 3.6V                |
| ◆ Max. recommended continuous current             | 230mA               |
| (Higher current can be available upon consulting) |                     |
| ◆ Max. pulse current capability ★                 | 400mA               |
| ◆ Operating temperature range                     | -55 ~ +85°C         |
| ◆ Lithium metal content                           | approx. 4.8g        |
| ◆ Weight  | 98g                 |
| ◆ Volume  | 51.0cm <sup>3</sup> |
| ◆ UL Approval                                     | MH28122             |



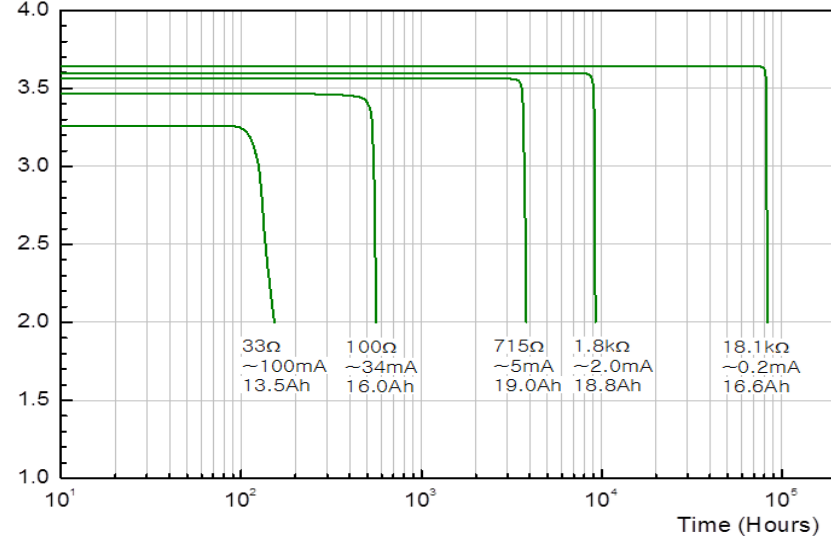
**Available Terminal Type**  
STD, T1, AX, Wire, Connector

### Storage Condition

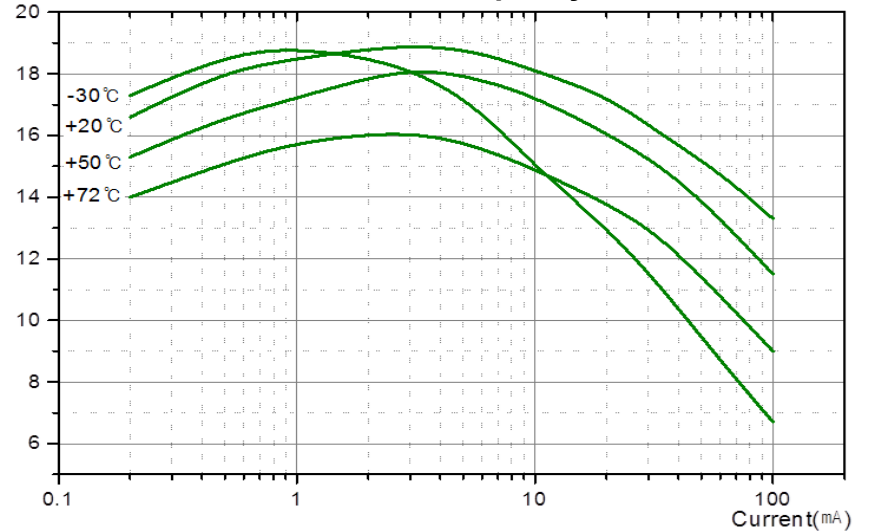
Please store batteries at clean, cool (not over +30°C), dry and ventilated condition

**Max Pulse Capability:** Maximum Pulse capability reading over 3.0V at 400mA/0.1sec. every 2 min. at +20°C, 10 $\mu$ A/cm<sup>2</sup> base current with fresh batteries. The pulse capability can be different to the cell status, environment. For max. pulse coverage, capacitor support is recommended.

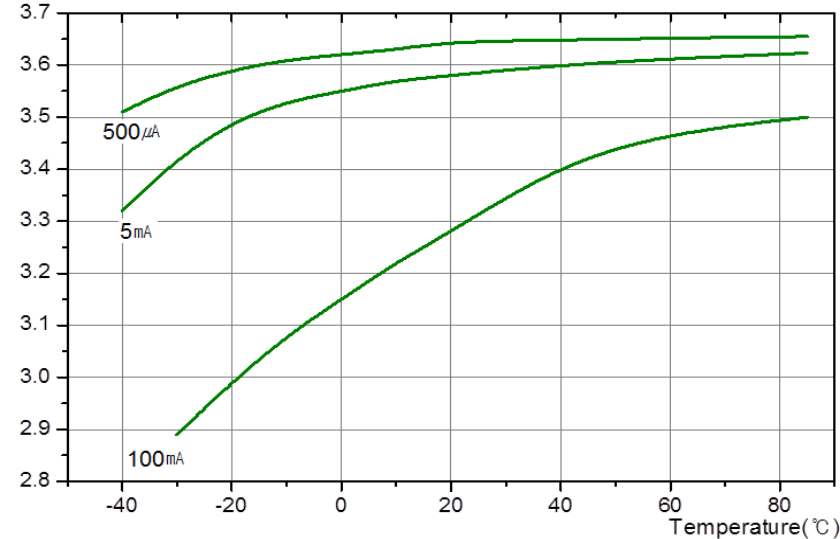
**Discharge Characteristics at +20°C**



**Capacity versus Current**



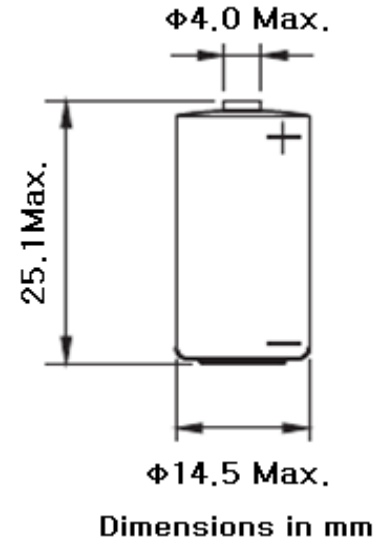
**Operating Voltage**



## SPECIFICATIONS

(Typical values stored at 20°C for one year)

|  |                    |
|--|--------------------|
| ◆ Nominal capacity<br>(at 1mA/20°C/68°F/2.0V cut-off)                                      | 1.2Ah              |
| ◆ Nominal voltage  | 3.6V               |
| ◆ Max. recommended continuous current<br>(Higher current can be available upon consulting) | 30mA               |
| ◆ Max. pulse current capability ★  | 100mA              |
| ◆ Operating temperature range  | -55 ~ +85°C        |
| ◆ Lithium metal content  | approx. 0.3g       |
| ◆ Weight   | 9g                 |
| ◆ Volume   | 4.3cm <sup>3</sup> |
| ◆ UL Approval  | MH28122            |



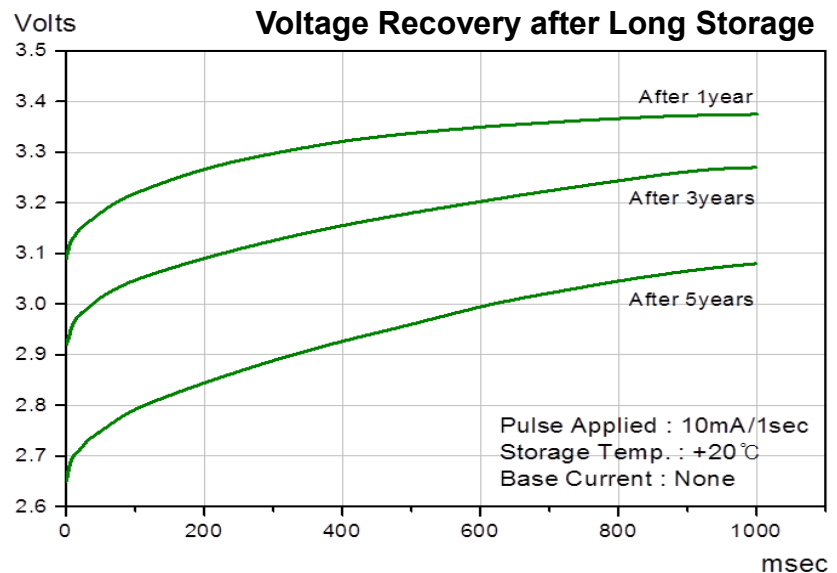
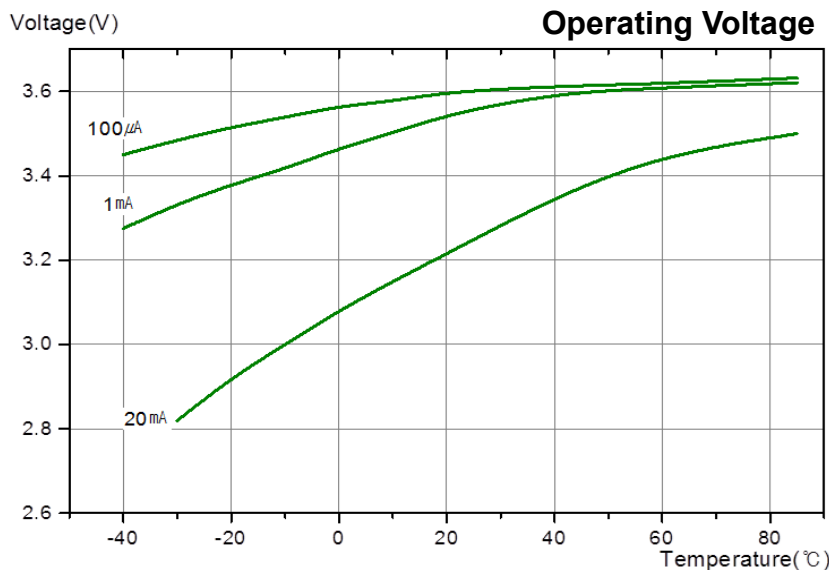
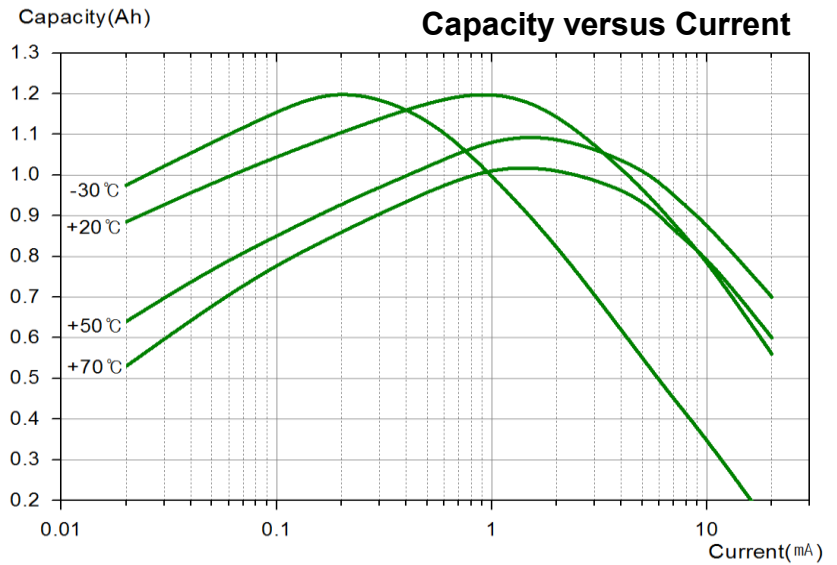
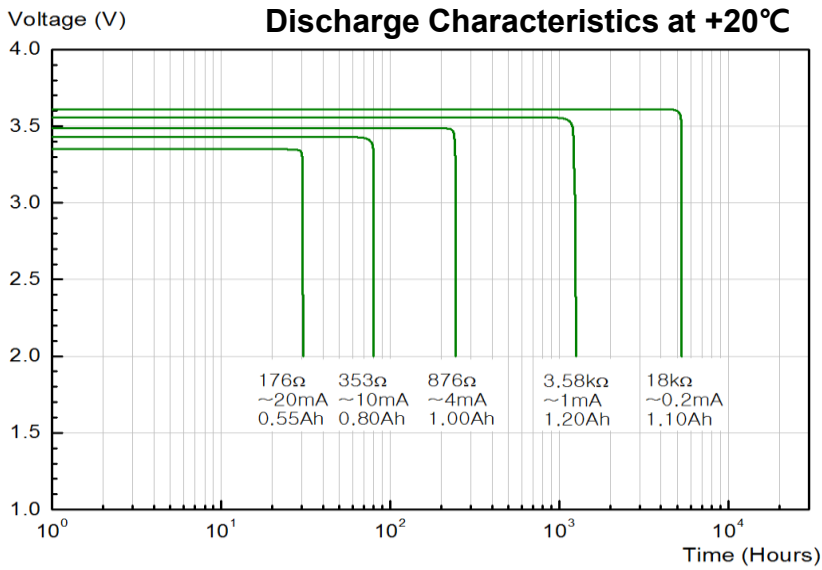
### Available Terminal Type

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), dry and ventilated condition

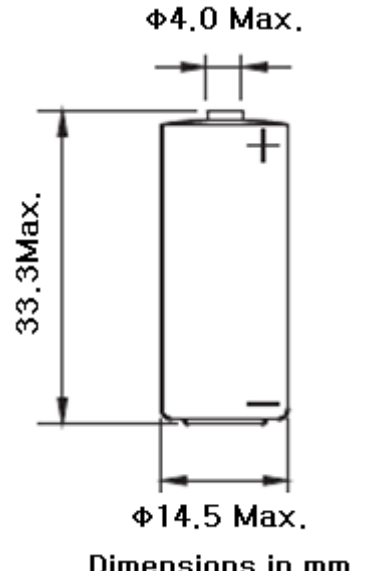
**Max Pulse Capability:** Maximum Pulse capability reading over 3.0V at 100mA/0.1sec. every 2 min. at +20°C, 10μA / cm<sup>2</sup> base current with fresh batteries. The pulse capability can be different to the cell status, environment. For max. pulse coverage, capacitor support is recommended.



## SPECIFICATIONS

(Typical values stored at 20°C for one year)

|  |                    |
|--|--------------------|
| ◆ Nominal capacity<br>(at 1mA/20°C/68°F/2.0V cut-off)                                      | 1.65Ah             |
| ◆ Nominal voltage  | 3.6V               |
| ◆ Max. recommended continuous current<br>(Higher current can be available upon consulting) | 60mA               |
| ◆ Max. pulse current capability ★  | 150mA              |
| ◆ Operating temperature range  | -55 ~ +85°C        |
| ◆ Lithium metal content  | approx. 0.5g       |
| ◆ Weight   | 12g                |
| ◆ Volume   | 5.5cm <sup>3</sup> |
| ◆ UL Approval  | MH28122            |



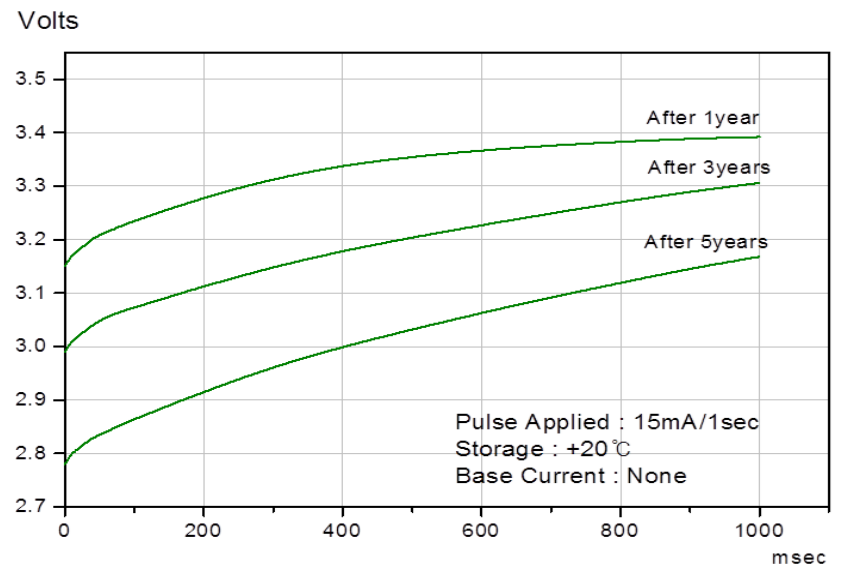
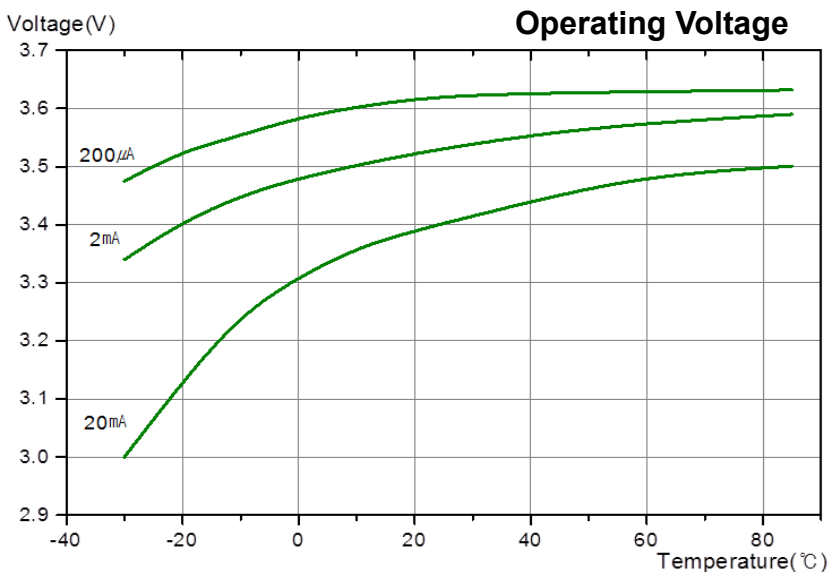
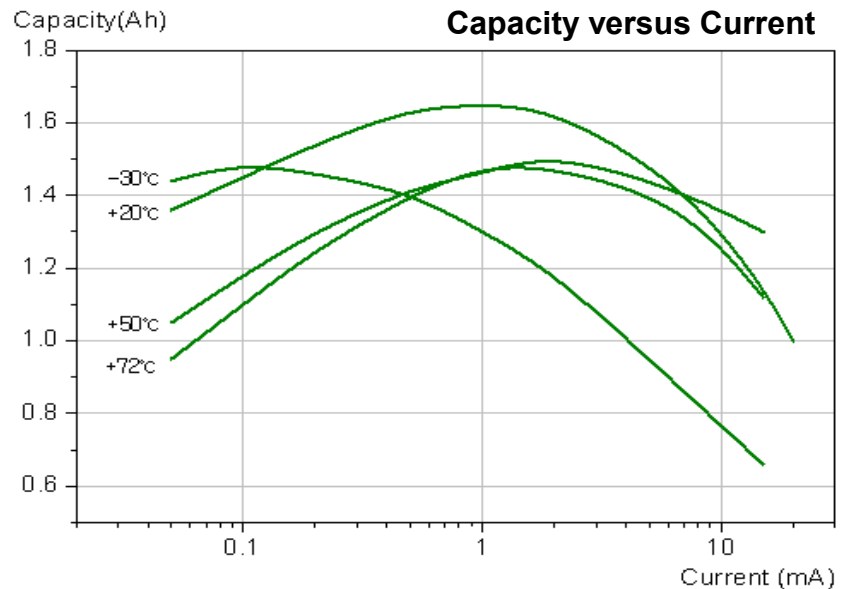
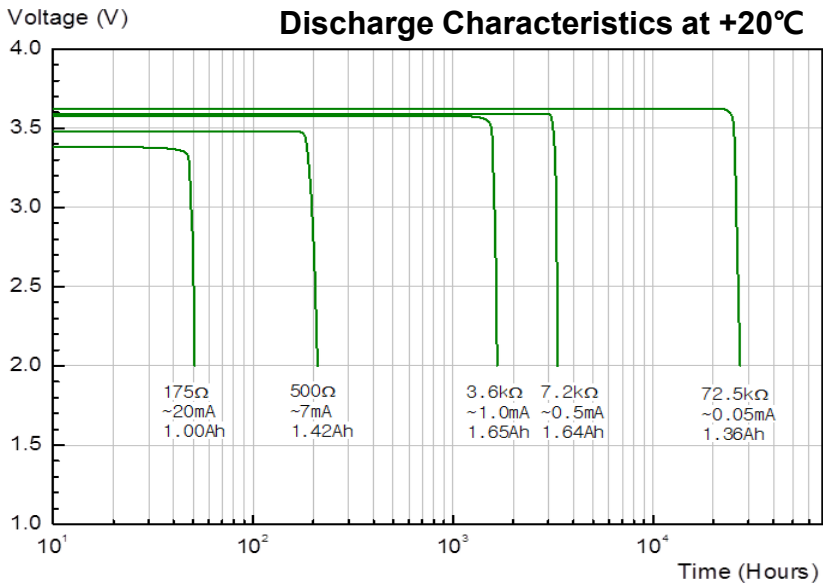
### Available Terminal Type

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

### Storage Condition

Please store batteries at clean, cool (not over +30°C), dry and ventilated condition

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

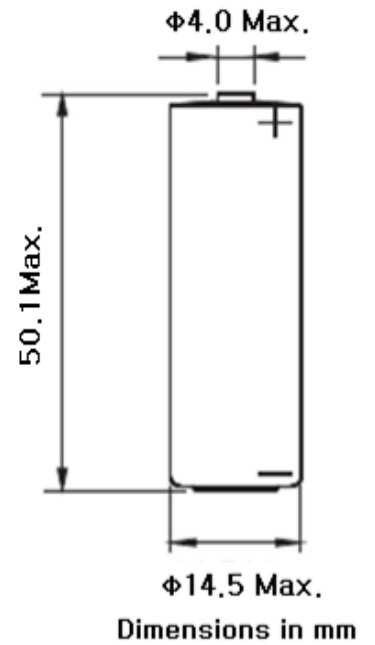




## SPECIFICATIONS

(Typical values stored at 20°C for one year)

|   |                    |
|---|--------------------|
| ◆ Nominal capacity                                | 2.6Ah              |
| (@ 1mA/20°C/68°F/2.0V Cut-Off)                    |                    |
| ◆ Nominal voltage                                 | 3.6V               |
| ◆ Max. recommended continuous Current             | 60mA               |
| (Higher current can be available upon consulting) |                    |
| ◆ Max. pulse current capability ★                 | 200mA              |
| ◆ Operating Temperature Range                     | -55 ~ 85°C         |
| ◆ Lithium metal content                           | approx. 0.7g       |
| ◆ Weight  | 17g                |
| ◆ Volume  | 8.0cm <sup>3</sup> |
| ◆ UL Approval                                     | MH28122            |



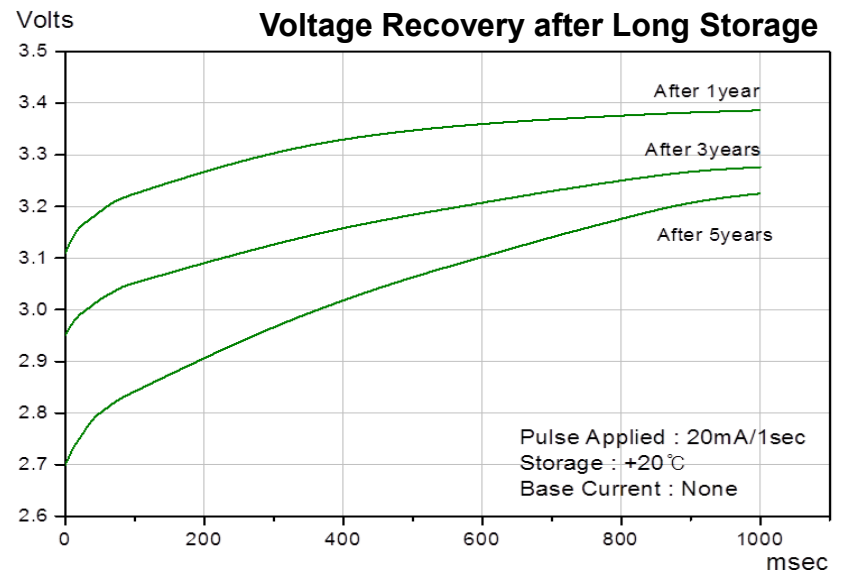
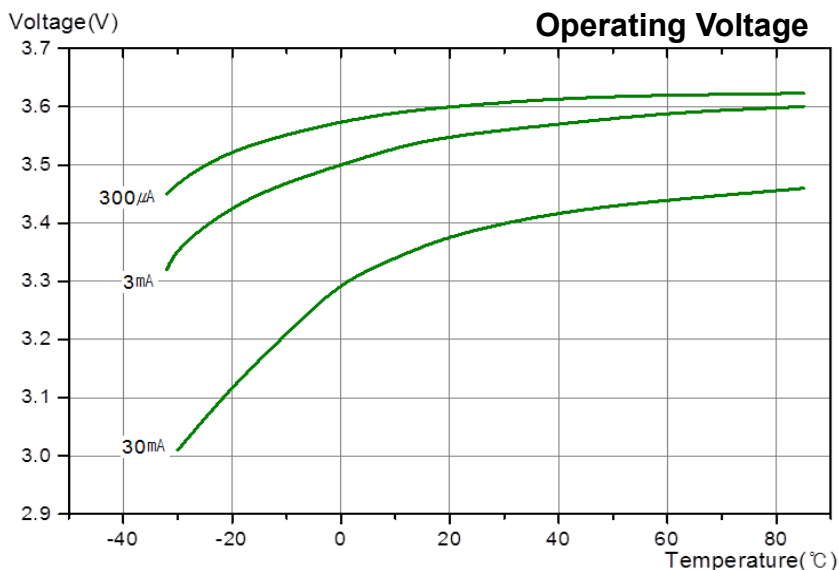
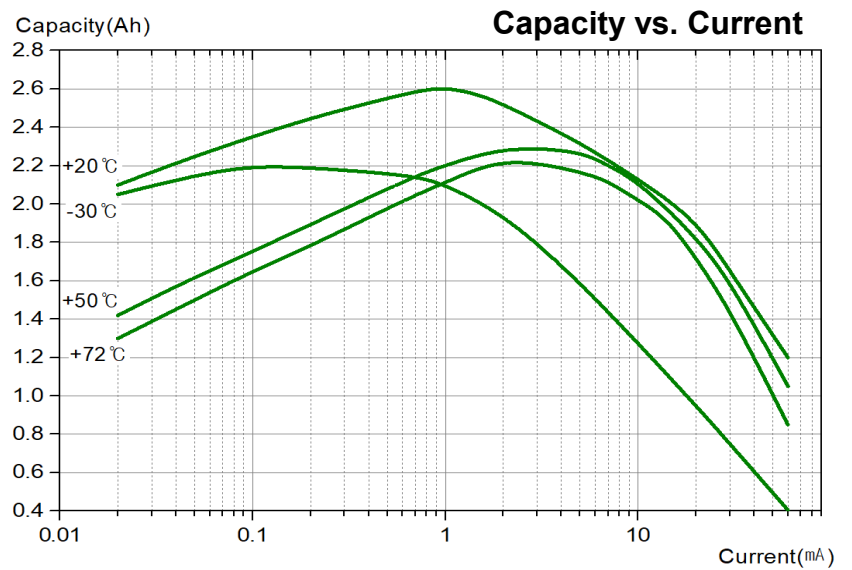
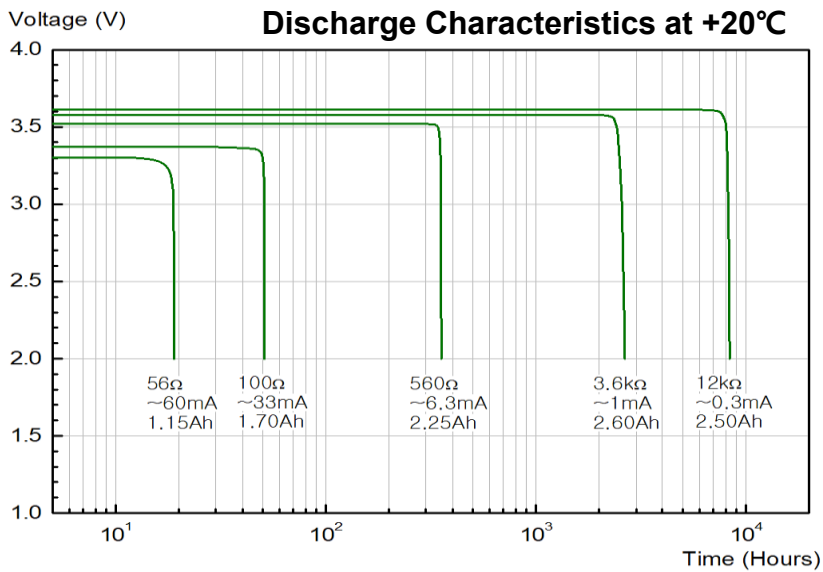
### Available Terminal Type

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

### Storage Condition

Please store batteries at clean, cool (not over +30°C), dry and ventilated condition

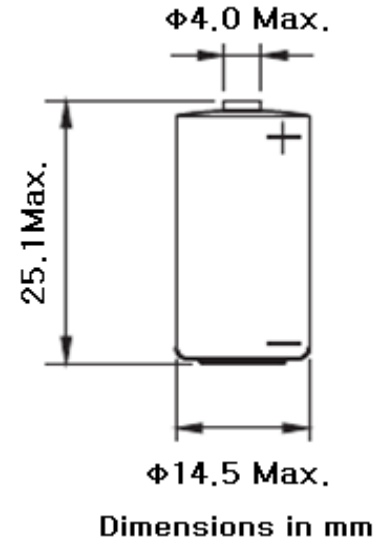
**Max Pulse Capability:** Maximum Pulse capability reading over 3.0V at 200mA/0.1sec. every 2 min. at +20°C, 10μA/cm<sup>2</sup> base current with fresh batteries. The pulse capability can be different to the cell status, environment. For max. pulse coverage, capacitor support is recommended.



## SPECIFICATIONS

(Typical values stored at 20°C for one year)

|  |                    |
|--|--------------------|
| ◆ Nominal capacity<br>(at 1mA/20°C/68°F/2.0V cut-off)                                      | 0.85Ah             |
| ◆ Nominal voltage  | 3.6V               |
| ◆ Max. recommended continuous current<br>(Higher current can be available upon consulting) | 30mA               |
| ◆ Max. pulse current capability ★  | 60mA               |
| ◆ Operating temperature range  | -55 ~ +130°C       |
| ◆ Lithium metal content  | approx. 0.3g       |
| ◆ Weight   | 9g                 |
| ◆ Volume   | 4.3cm <sup>3</sup> |
| ◆ UL Approval  | MH28122            |



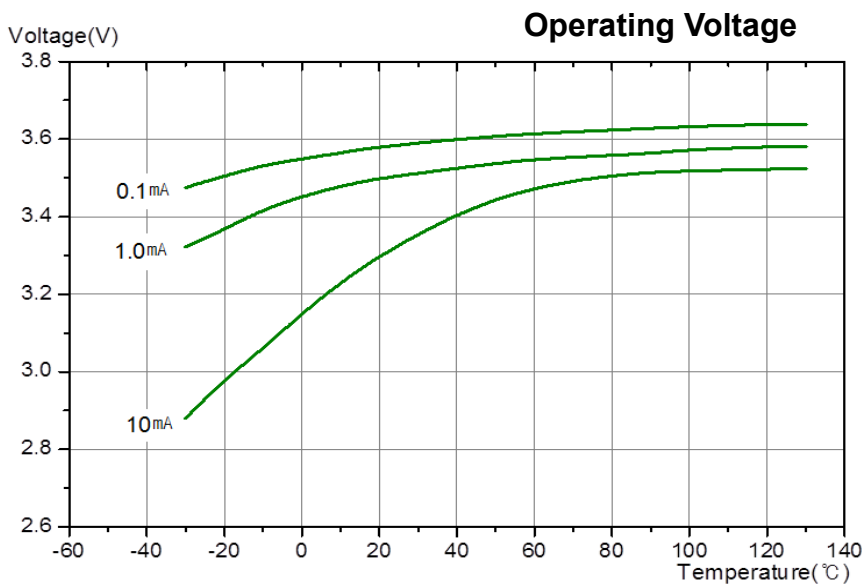
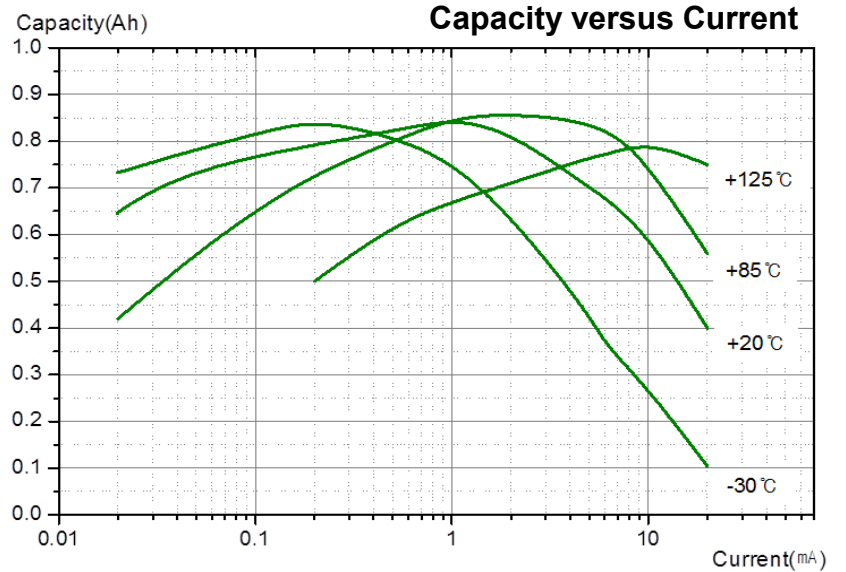
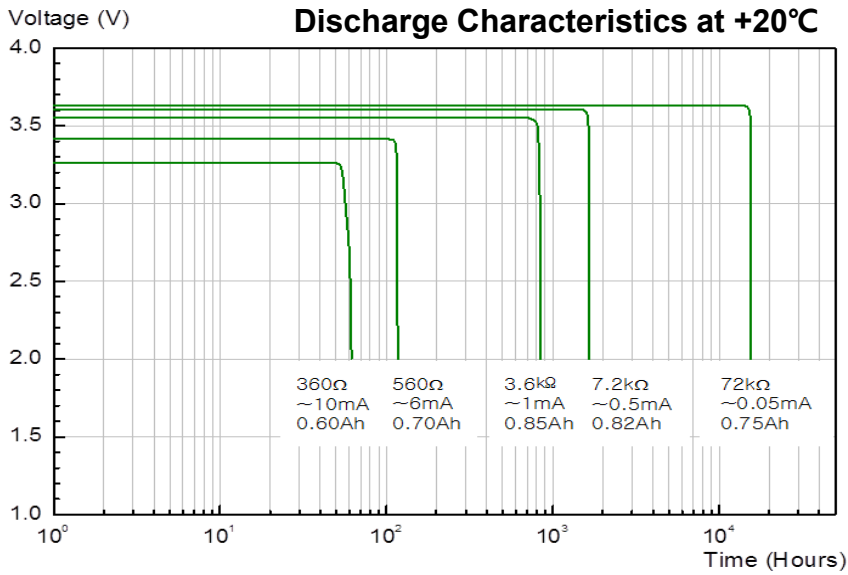
### Available Terminal Type

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

### Storage Condition

Please store batteries at clean, cool (not over +30°C), dry and ventilated condition

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

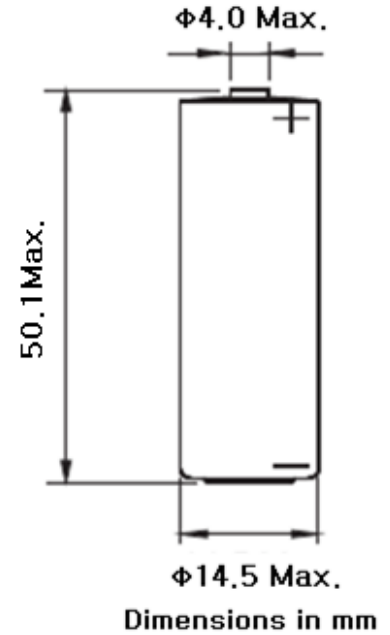


## SPECIFICATIONS

(Typical values stored at 20°C for one year)

|  |                    |
|--|--------------------|
| ◆ Nominal capacity<br>(at 2mA/20°C/68°F/2.0V cut-off)                                      | 1.8Ah              |
| ◆ Nominal voltage  | 3.6V               |
| ◆ Max. recommended continuous current<br>(Higher current can be available upon consulting) | 60mA               |
| ◆ Max. pulse current capability ★  | 120mA              |
| ◆ Operating temperature range  | -55 ~+130°C        |
| ◆ Lithium metal content  | approx. 0.7g       |
| ◆ Weight   | 17g                |
| ◆ Volume   | 8.0cm <sup>3</sup> |
| ◆ UL Approval  | MH28122            |

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

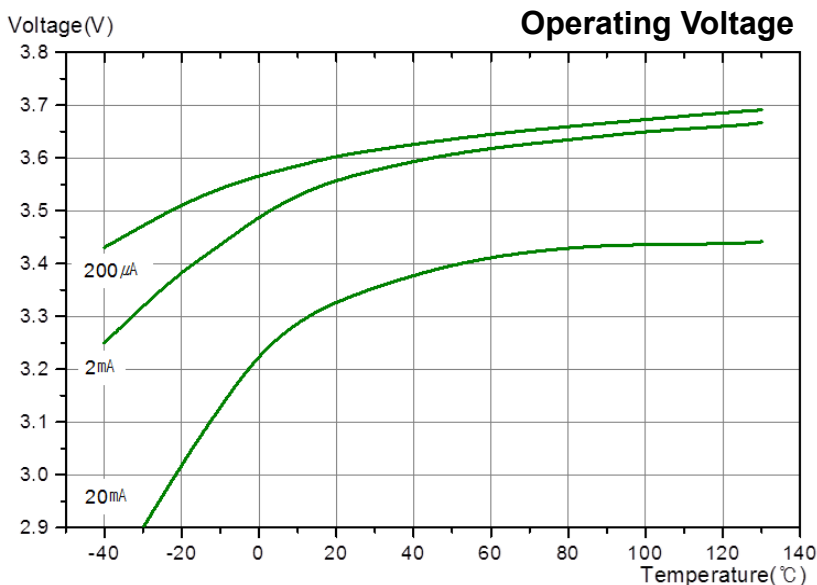
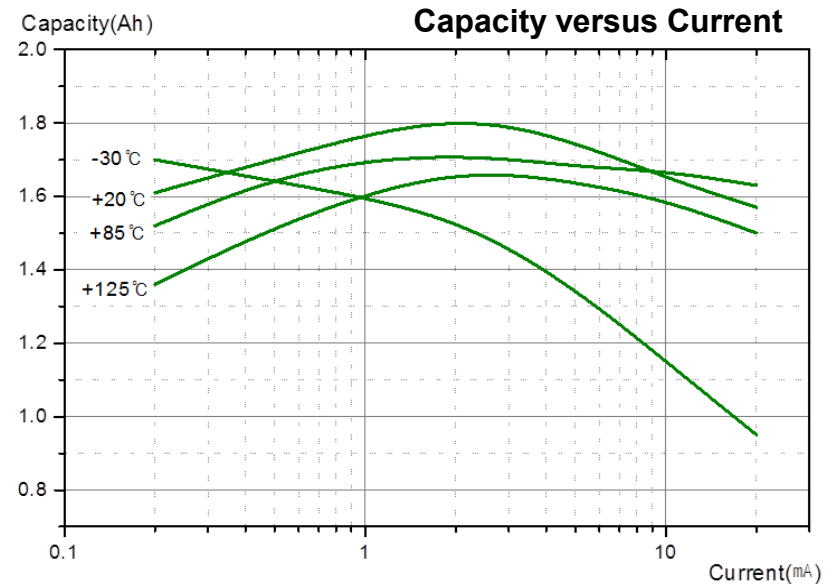
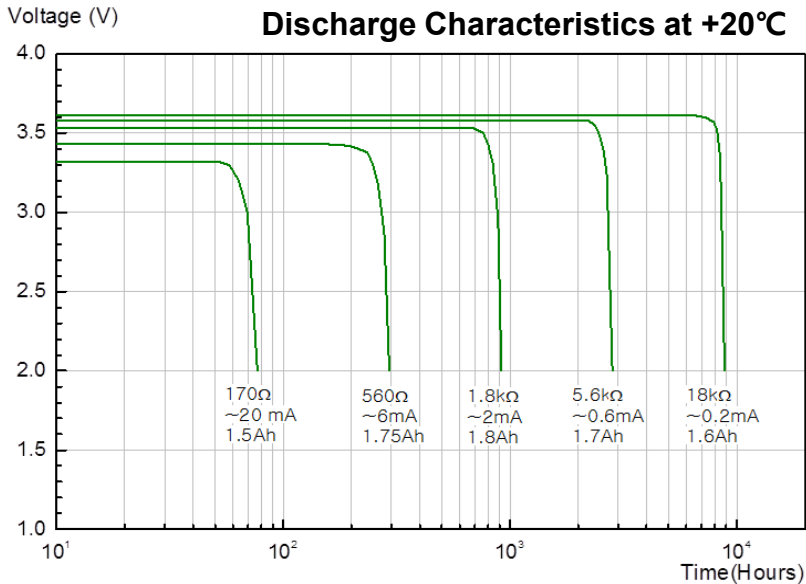


### Available Terminal Type

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

### Storage Condition

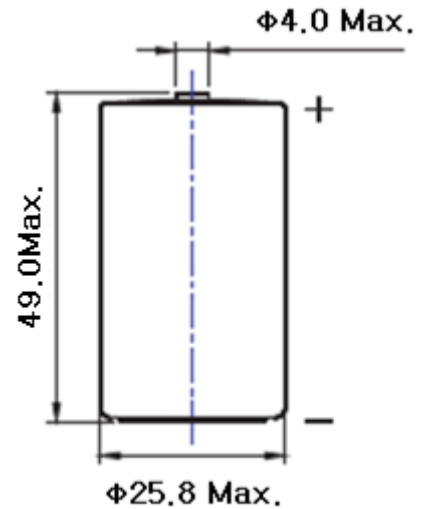
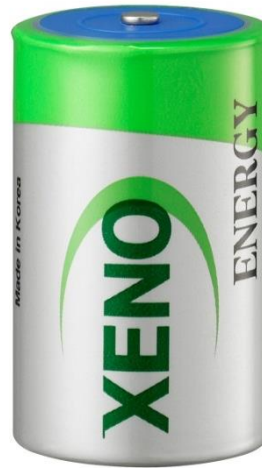
Please store batteries at clean, cool (not over +30°C), dry and ventilated condition



## SPECIFICATIONS

(Typical values stored at 20°C for one year)

|  |                   |
|--|-------------------|
| ◆ Nominal capacity<br>(at 20mA/20°C/68°F/2.0V cut-off)                                     | 7.5Ah             |
| ◆ Nominal voltage  | 3.9V              |
| ◆ Max. recommended continuous current<br>(Higher current can be available upon consulting) | 150mA             |
| ◆ Max. pulse current capability ★  | 230mA             |
| ◆ Operating temperature range  | -40 ~+85°C        |
| ◆ Lithium metal content  | approx. 2.3g      |
| ◆ Weight   | 50g               |
| ◆ Volume   | 26cm <sup>3</sup> |
| ◆ UL Approval  | MH28122           |



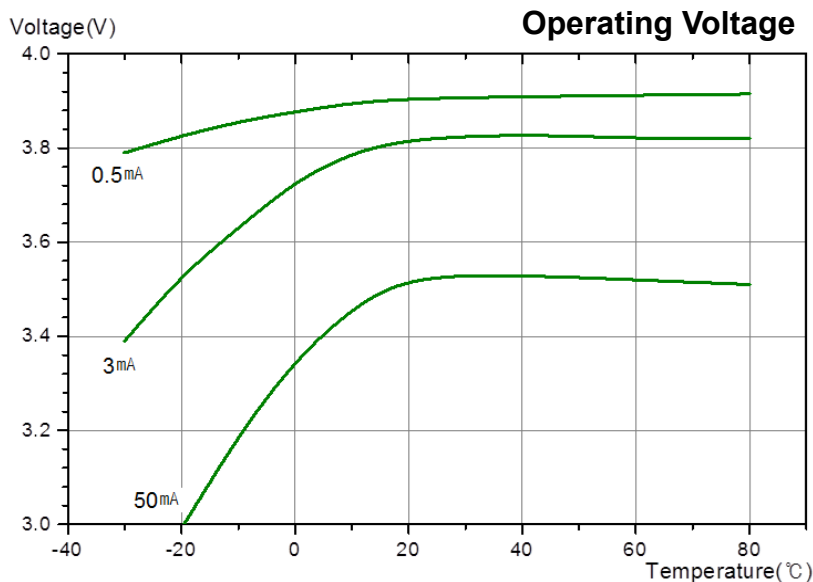
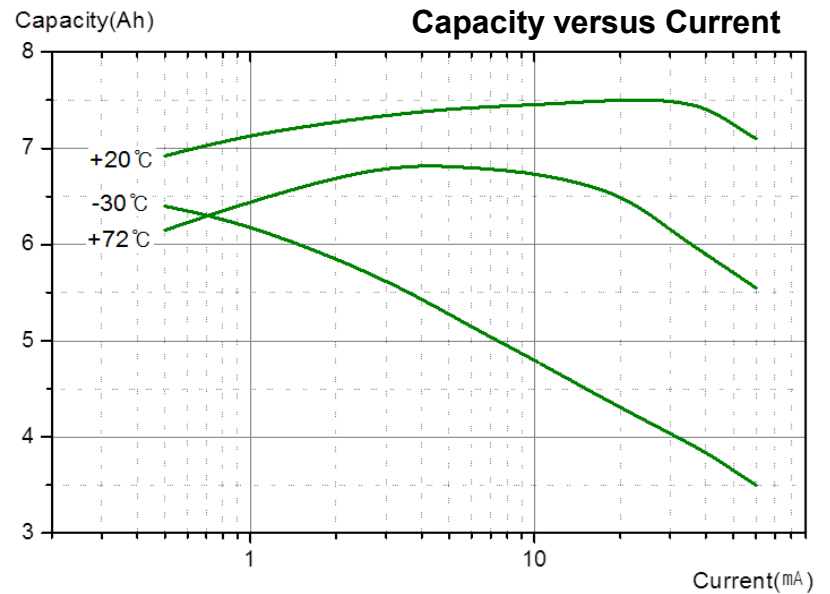
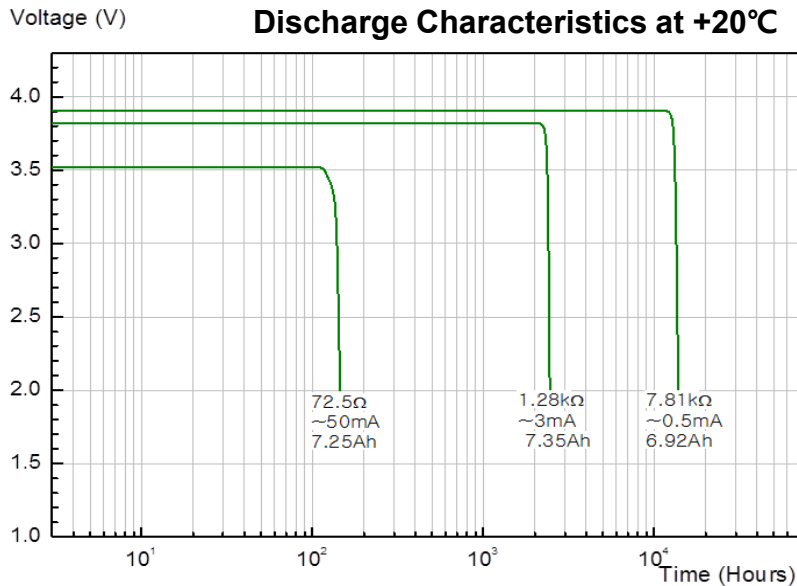
Dimensions in mm

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

### Storage Condition

Please store batteries at clean, cool (not over +30°C), dry and ventilated condition

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

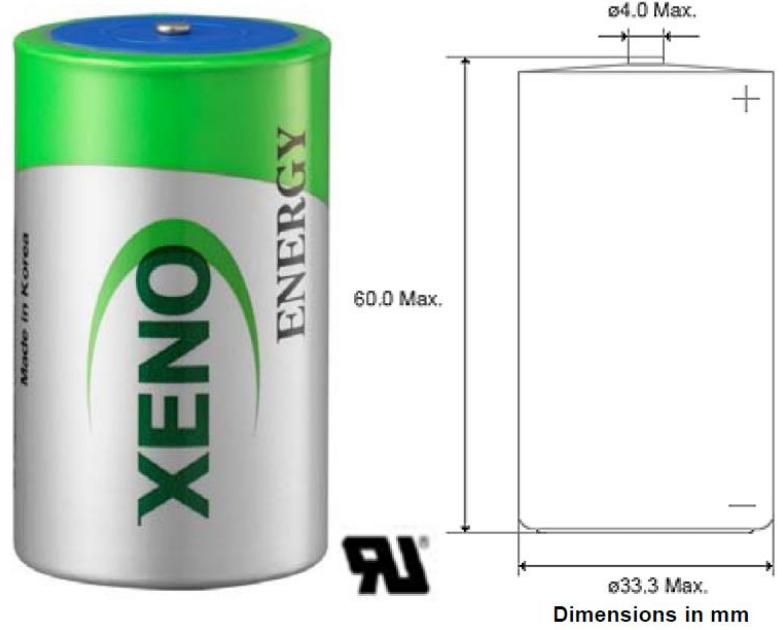




## SPECIFICATIONS

(Typical values stored at 20°C for one year)

|  |                     |
|--|---------------------|
| ◆ Nominal capacity<br>(at 30mA/20°C/68°F/2.0V cut-off)                                     | 16Ah                |
| ◆ Nominal voltage  | 3.9V                |
| ◆ Max. recommended continuous current<br>(Higher current can be available upon consulting) | 230mA               |
| ◆ Max. pulse current capability ★  | 400mA               |
| ◆ Operating temperature range  | -40 ~ +85°C         |
| ◆ Lithium metal content  | approx. 4.8g        |
| ◆ Weight   | 98g                 |
| ◆ Volume   | 51.0cm <sup>3</sup> |
| ◆ UL Approval  | MH28122             |

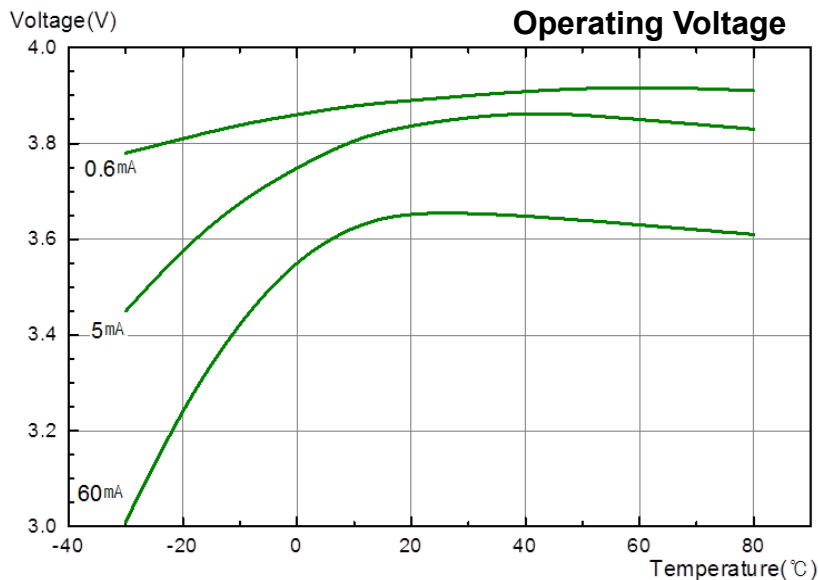
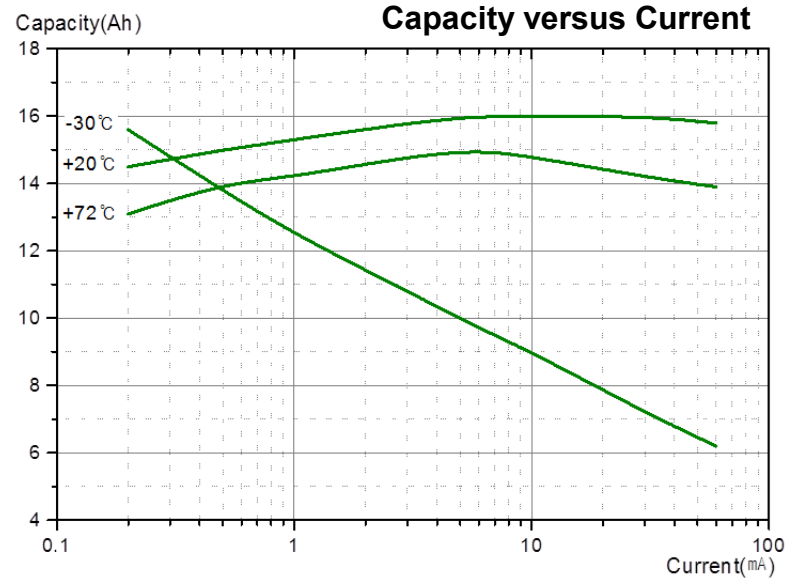
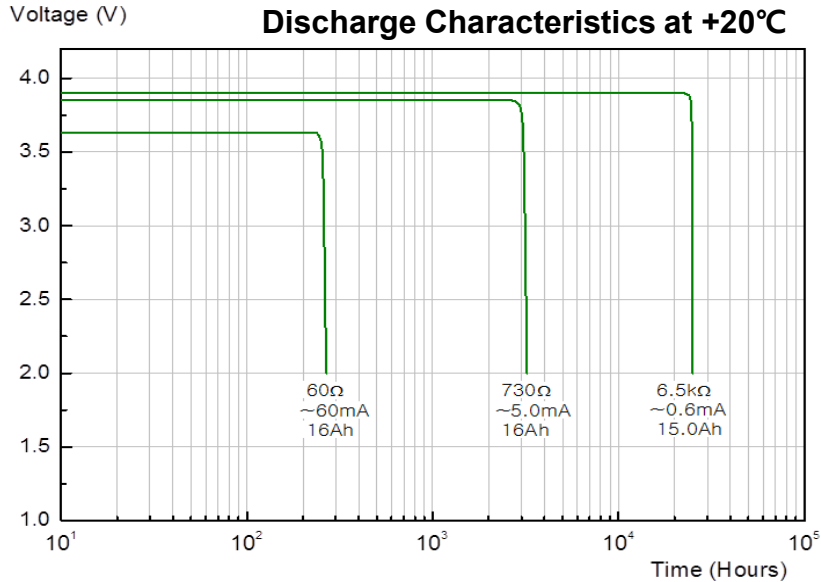


**Max Pulse Capability:** Maximum Pulse capability reading over 3.0V at 400mA/0.1sec. every 2 min. at +20°C, 10μA/cm<sup>2</sup> base current with fresh batteries. The pulse capability can be different to the cell status, environment. For max. pulse coverage, capacitor support is recommended.

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

### Storage Condition

Please store batteries at clean, cool (not over +30°C), dry and ventilated condition



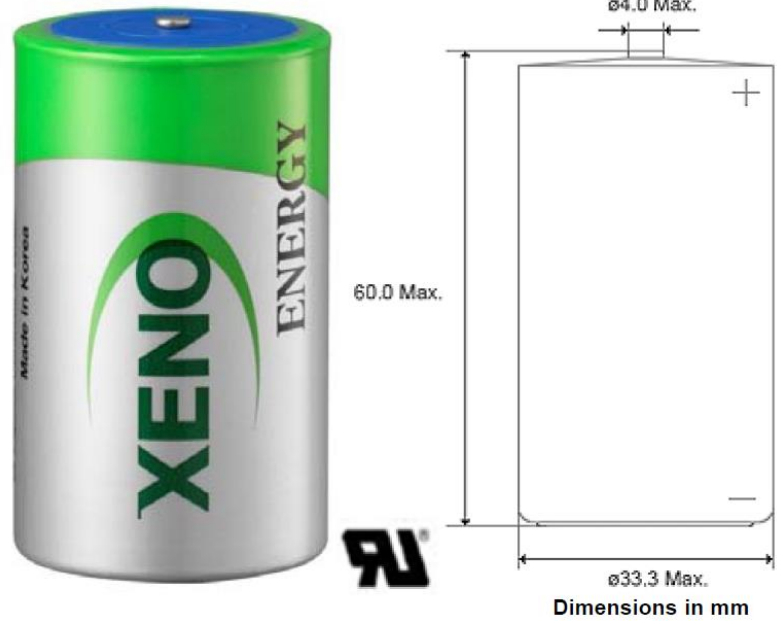


## SPECIFICATIONS

### Low Magnetic Signature

(Typical values stored at 20°C for one year)

|   |                     |
|---|---------------------|
| ◆ Nominal capacity                                | 19Ah                |
| (at 5mA/20°C/68°F/2.0V cut-off)                   |                     |
| ◆ Nominal voltage                                 | 3.6V                |
| ◆ Max. recommended continuous current             | 230mA               |
| (Higher current can be available upon consulting) |                     |
| ◆ Max. pulse current capability ★                 | 400mA               |
| ◆ Operating temperature range                     | -55 ~+85°C          |
| ◆ Lithium metal content                           | approx. 4.8g        |
| ◆ Weight  | 98g                 |
| ◆ Volume  | 51.0cm <sup>3</sup> |
| ◆ UL Approval                                     | MH28122             |



### Available Terminal Type

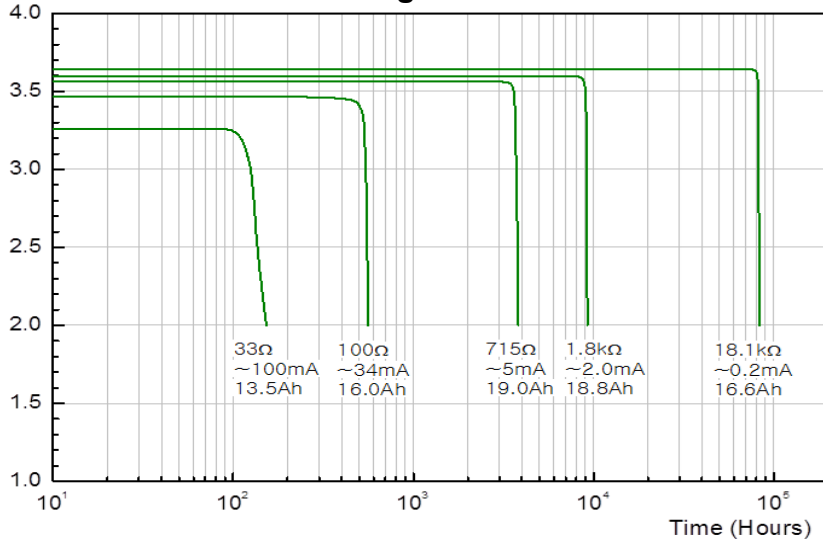
STD, T1, AX, Wire, Connector

### Storage Condition

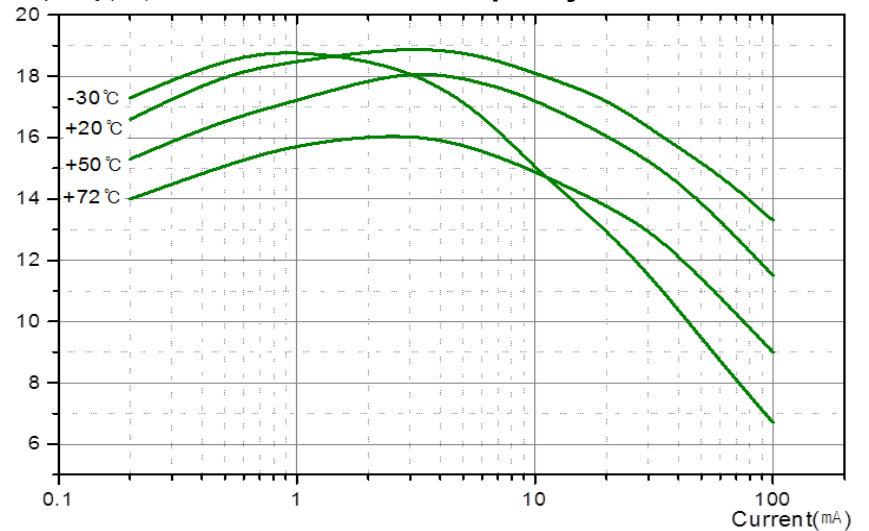
Please store batteries at clean, cool (not over +30°C), dry and ventilated condition

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

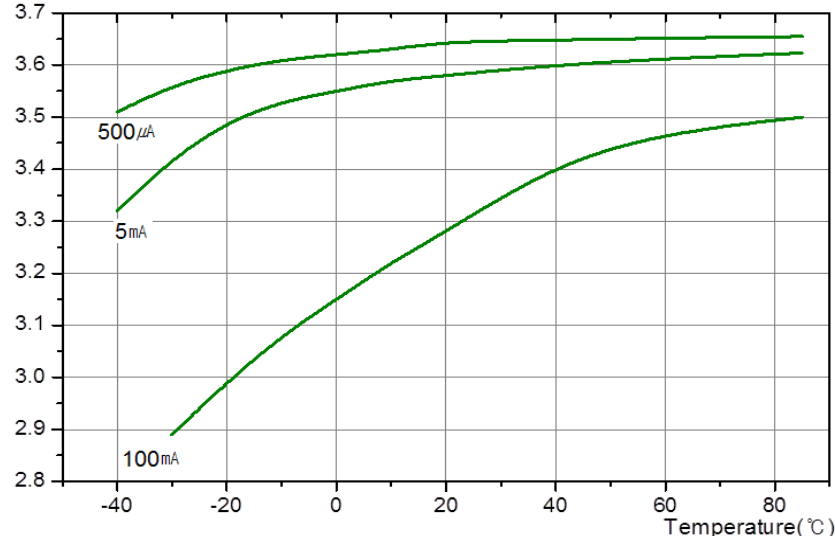
Voltage (V) **Discharge Characteristics at +20°C**



Capacity(Ah) **Capacity versus Current**



Voltage(V) **Operating Voltage**



### Major features

#### Low Self Discharge Rate

- less than 1.5% after 1 year storage at 20°C
- less than 18% after 10 year storage at 20°C

#### Typical Magnetic Signature

- less than 200mGauss at 6mm
- less than 1.0mGauss at 127mm
- less than 0.3mGauss at 300mm

#### Applications

Seismic Surveying, Scientific Equipment, Buoys, Oceanographic Instrumentations

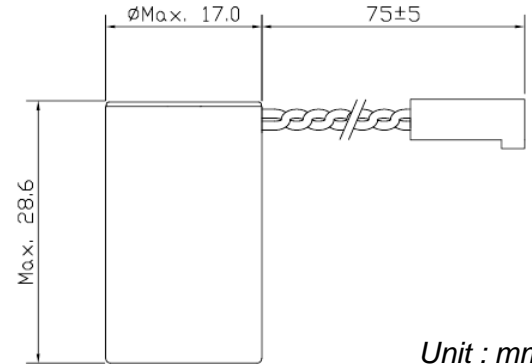
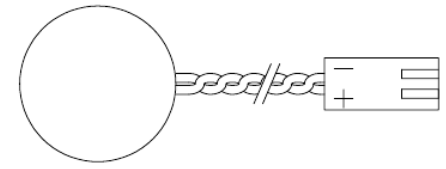
## SPECIFICATIONS

(Typical values stored at 20°C for one year)

- ◆ Nominal capacity 1.2Ah  
(at 1mA/20°C/68°F/2.0V cut-off)
- ◆ Nominal voltage 3.6V
- ◆ Max. recommended continuous current ★ 50mA  
(Higher current can be available upon consulting)
- ◆ Max. pulse current capability ★ 100mA
- ◆ Operating temperature range -55 ~+85°C
- ◆ Case ABS AF366F, UL94 V-0 FR
- ◆ Lithium metal content approx. 0.3g
- ◆ Weight / Volume 9g / 4.3cm<sup>3</sup>
- ◆ UL Approval MH28122

**Max Recommended Continuous Current:** Continuous current permitting 15% of the nominal capacity to be achieved at +20°C with 2.0V cut off.

**Max Pulse Current Capability:** Maximum Pulse capability reading over 3.0V at 100mA/0.1sec. every 2 min. at +20°C, 1mA / cm<sup>2</sup> base current with fresh batteries.



Unit : mm

### Storage Condition

Please store batteries at clean, cool (not over +30°C), dry and ventilated condition

