XL-050F

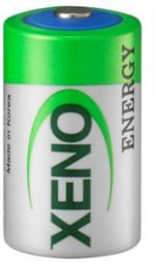
SIZE:1/2AA, ER14252

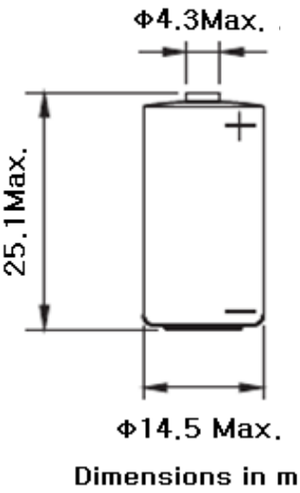
SPECIFICATIONS

(Typical values stored at 20℃ for one year)

◈ Nominal capacity (at 1mA/20℃/68℉/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.*





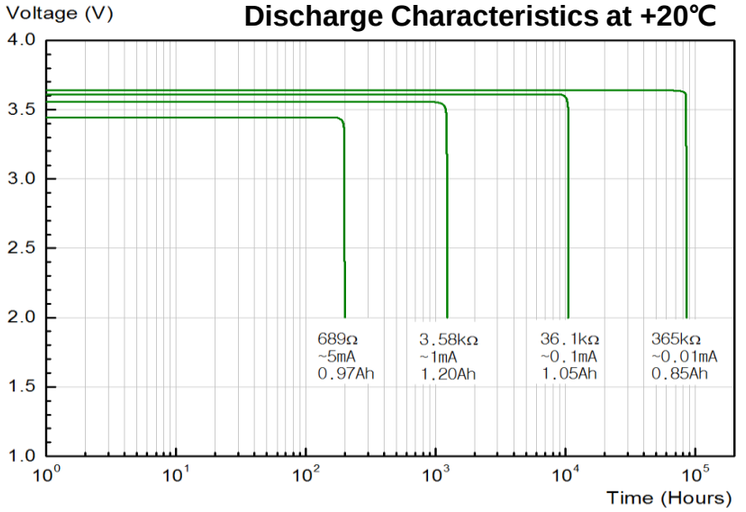
Available Terminal Type

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

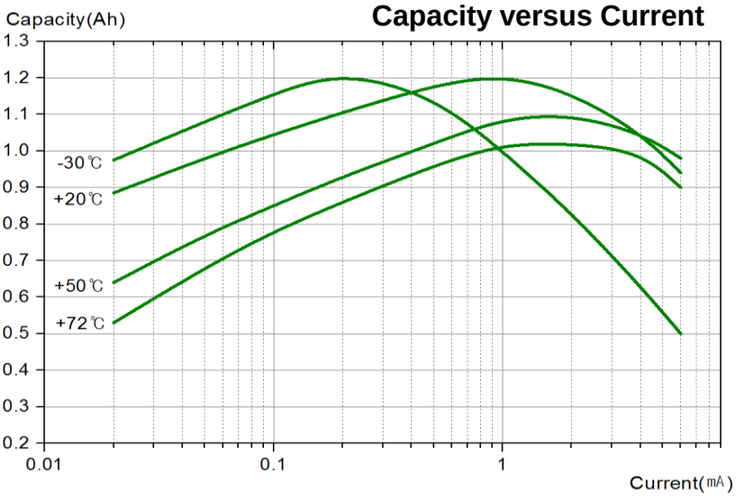
Storage Condition

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

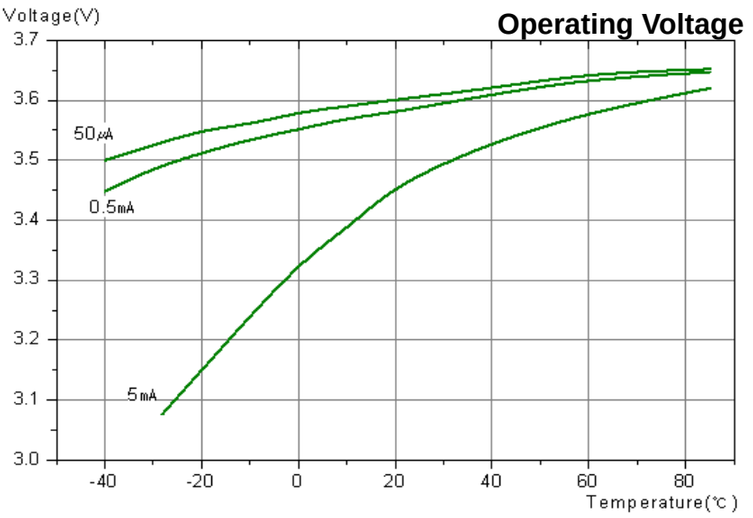
Discharge Characteristics at +20℃



Capacity versus Current



Operating Voltage



Standards

- Safety: UL 1642, IEC 60086-4, IEC 60079-11
- Transport: UN 3090
- Quality: ISO 9001, ISO 14001, IATF 16949
- Environment: RoHS, REACH

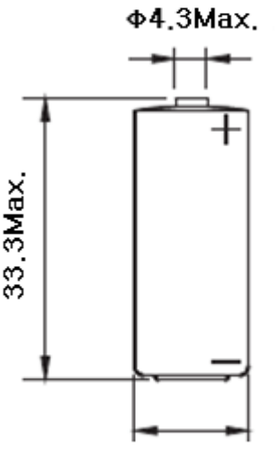
XL-055F

SIZE:2/3AA, ER14335

SPECIFICATIONS

(Typical values stored at 20℃ for one year)

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



Dimensions in mm

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.*

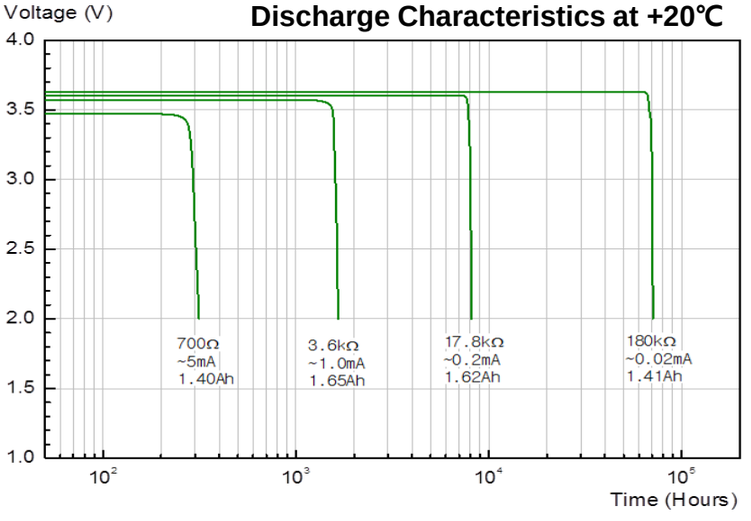
Available Terminal Type

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

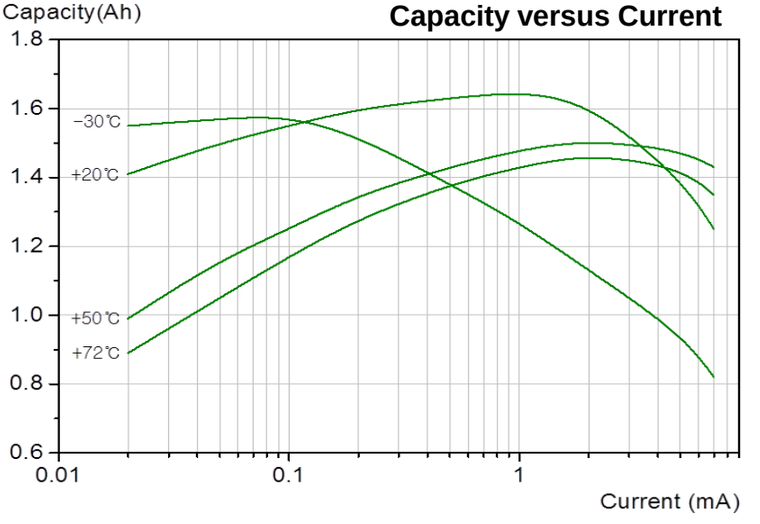
Storage Condition

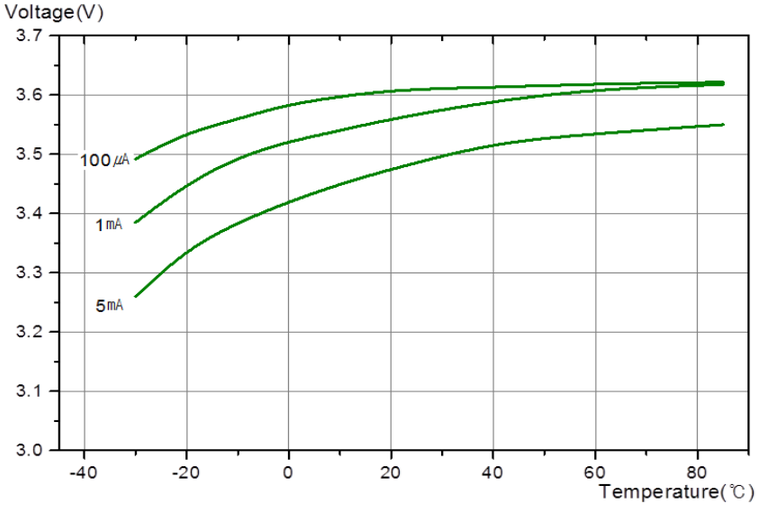
Please store batteries at clean, cool (not over +30°C), dry and ventilated condition

Discharge Characteristics at +20℃



Capacity versus Current





Standards

- Safety: UL 1642, IEC 60079-11
- Transport: UN 3090
- Quality: ISO 9001, ISO 14001, IATF 16949
- Environment: RoHS, REACH

XL-060F

SIZE:AA, ER14505

SPECIFICATIONS

(Typical values stored at 20℃ for one year)

- Nominal capacity 2.6Ah
  (at 1mA/20℃/68℉/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℃
- 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

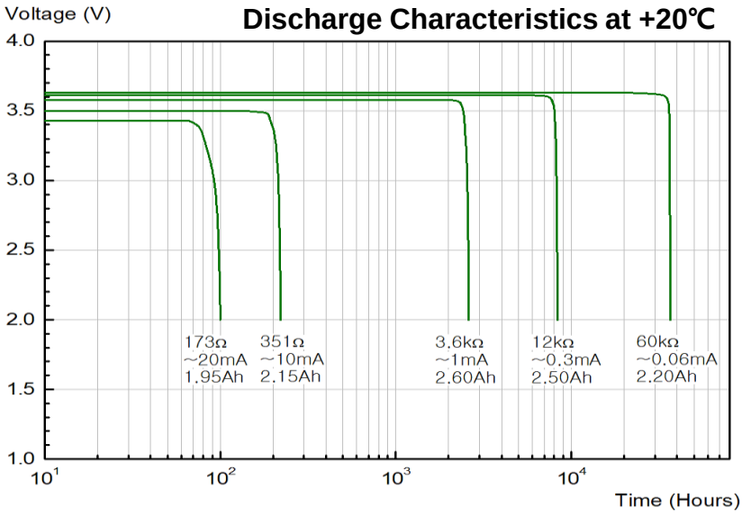
Available Terminal Type

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

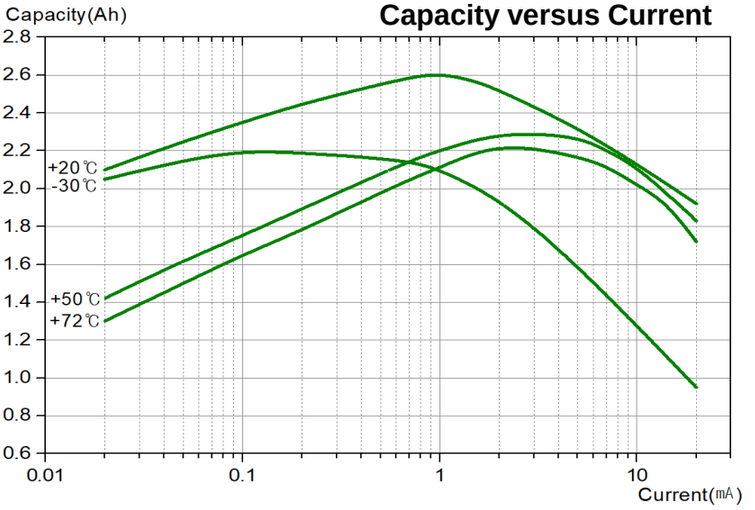
Storage Condition

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

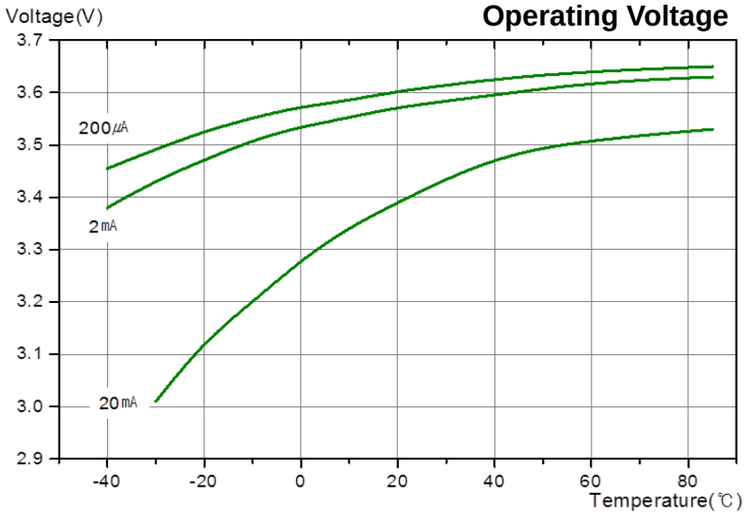
Discharge Characteristics at +20℃



Capacity versus Current



Operating Voltage



Standards

- Safety: UL 1642, IEC 60086-4, IEC 60079-11
- Transport: UN 3090
- Quality: ISO 9001, ISO 14001, IATF 16949
- Environment: RoHS, REACH

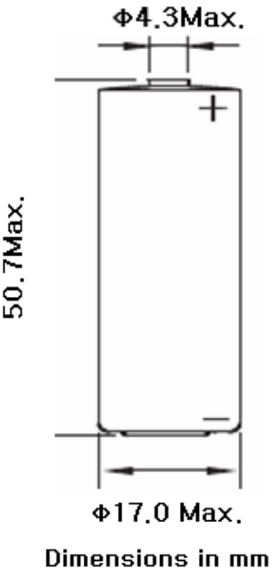
XL-100F

SIZE:A, ER17500

SPECIFICATIONS

(Typical values stored at 20℃ for one year)

◈ Nominal capacity (at 3.0mA/20℃/68℉/2.0V cut-off)	3.6Ah
◈ Nominal voltage	3.6V
◈ Max. recommended continuous current (Higher current can be available upon consulting)	60mA
◈ Max. pulse current capability ★	150mA
◈ 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 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.*

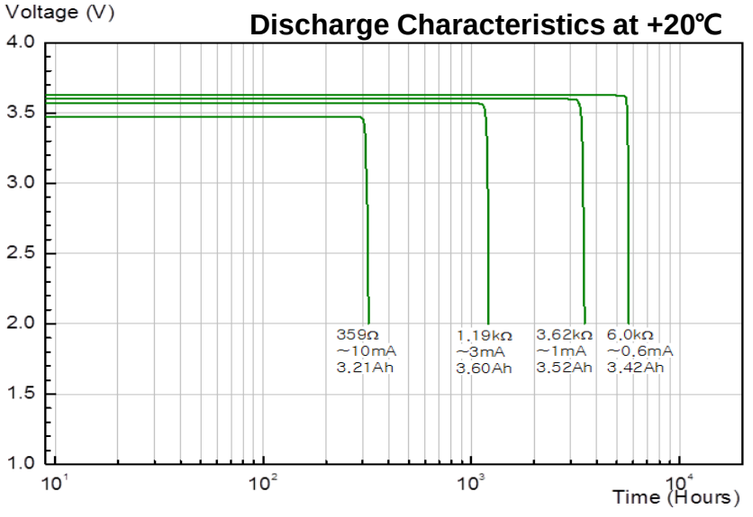
Available Terminal Type

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

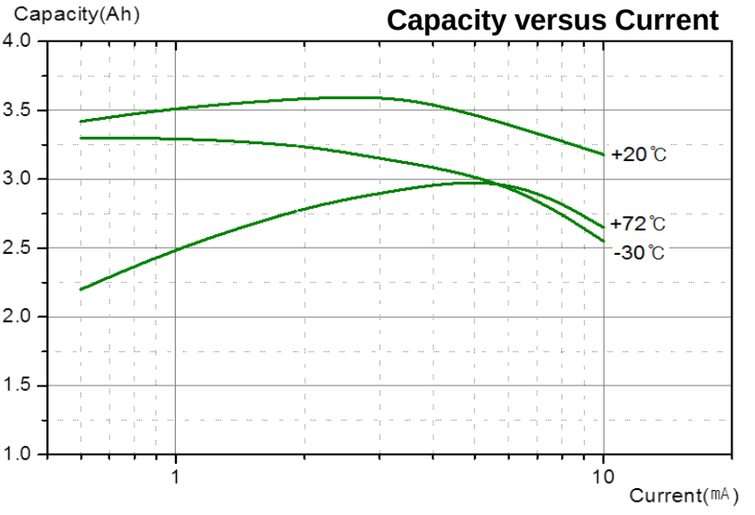
Storage Condition

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

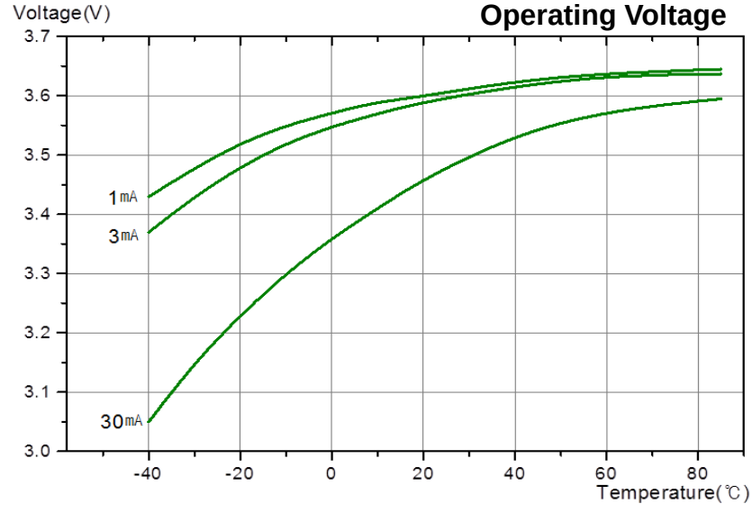
Discharge Characteristics at +20℃



Capacity versus Current



Operating Voltage



Standards

- Safety: UL 1642, IEC 60086-4, IEC 60079-11
- Transport: UN 3090
- Quality: ISO 9001, ISO 14001, IATF 16949
- Environment: RoHS, REACH

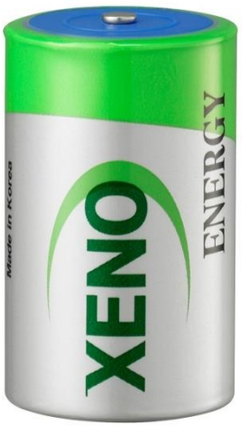
XL-145F

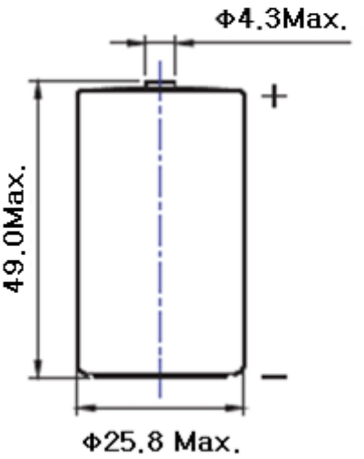
SIZE:C, ER26500

SPECIFICATIONS

(Typical values stored at 20℃ for one year)

◈ Nominal capacity (at 3mA/20℃/68℉/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	50g
◈ Volume	26㎤
◈ UL Approval	MH28122





Dimensions in mm

Available Terminal Type

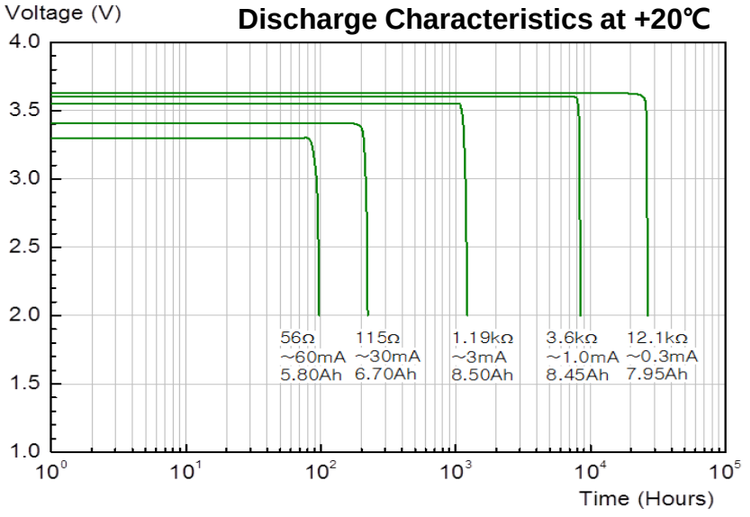
STD, T1, AX, Wire, Connector

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.*

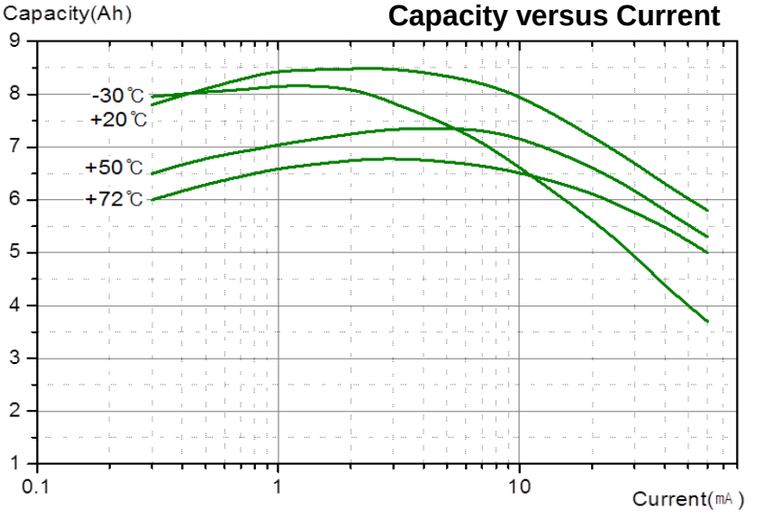
Storage Condition

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

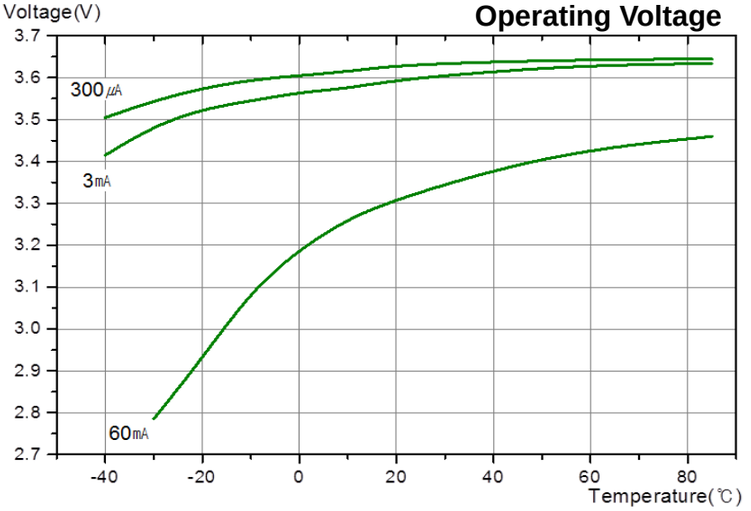
Discharge Characteristics at +20℃



Capacity versus Current



Operating Voltage



Standards

- Safety: UL 1642, IEC 60086-4, IEC 60079-11
- Transport: UN 3090
- Quality: ISO 9001, ISO 14001, IATF 16949
- Environment: RoHS, REACH

XL-205F

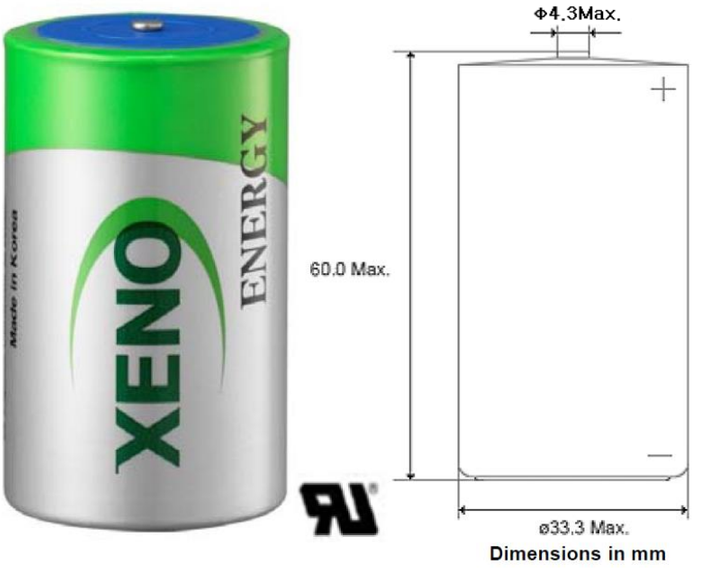
SIZE:D, ER32L615

SPECIFICATIONS

(Typical values stored at 20℃ for one year)

◈ Nominal capacity (at 5mA/20℃/68℉/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.*



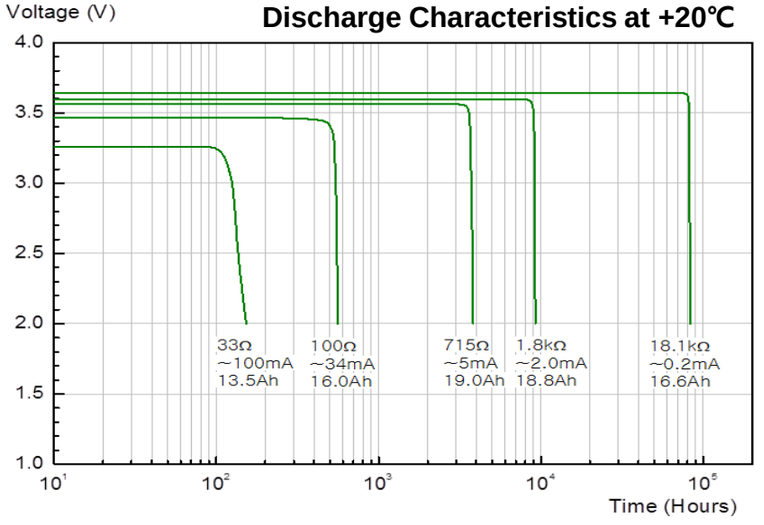
Available Terminal Type

STD, T1, AX, Wire, Connector

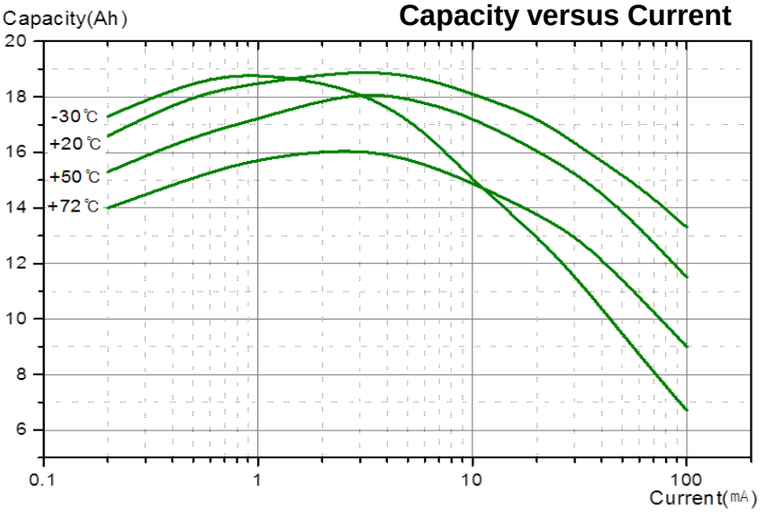
Storage Condition

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

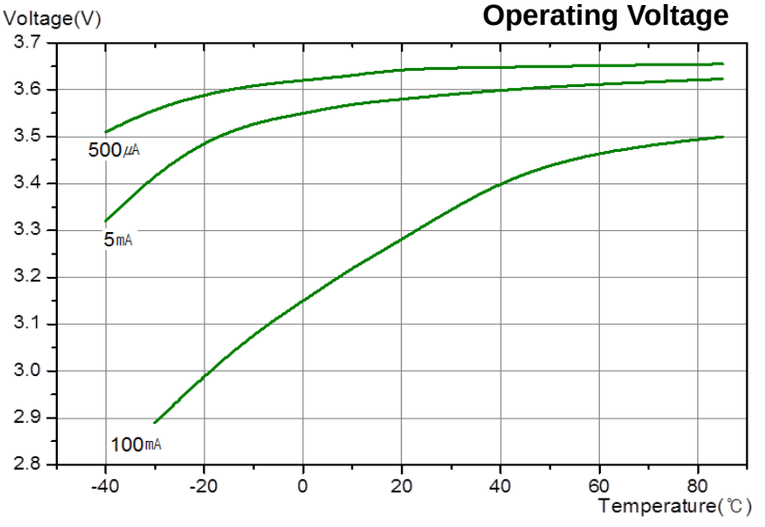
Discharge Characteristics at +20℃



Capacity versus Current



Operating Voltage



Standards

- Safety: UL 1642, IEC 60086-4, IEC 60079-11
- Transport: UN 3090
- Quality: ISO 9001, ISO 14001, IATF 16949
- Environment: RoHS, REACH

XLP-050F

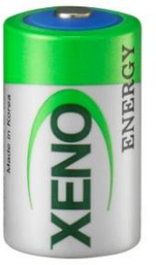
SIZE:1/2AA, ER14252

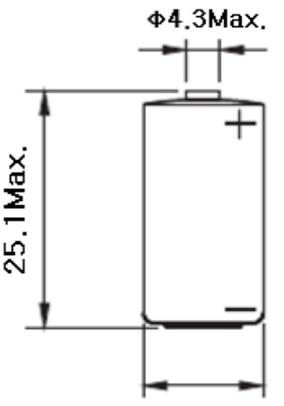
SPECIFICATIONS

(Typical values stored at 20℃ for one year)

◈ Nominal capacity (at 1mA/20℃/68℉/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

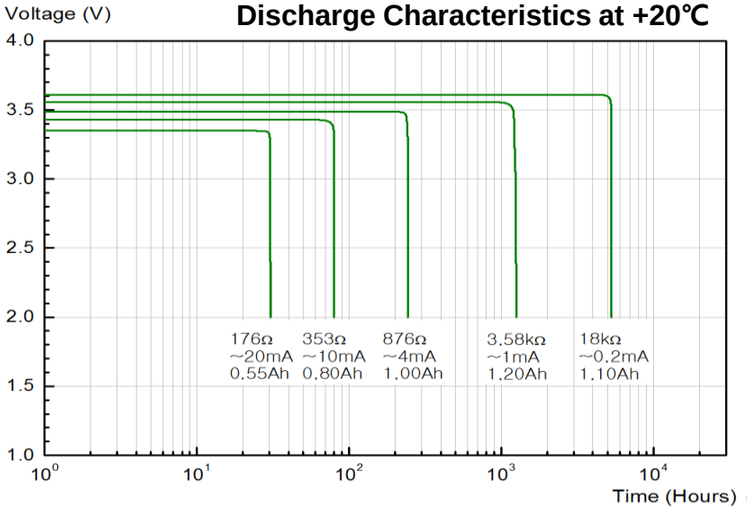
Available Terminal Type

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

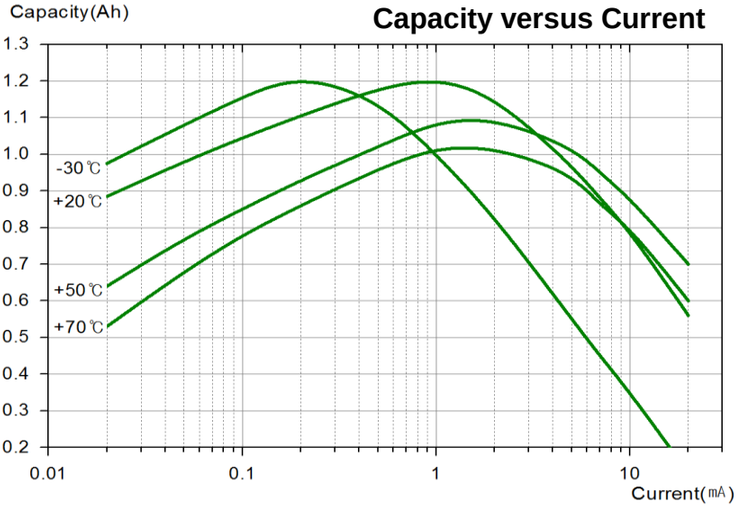
Storage Condition

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

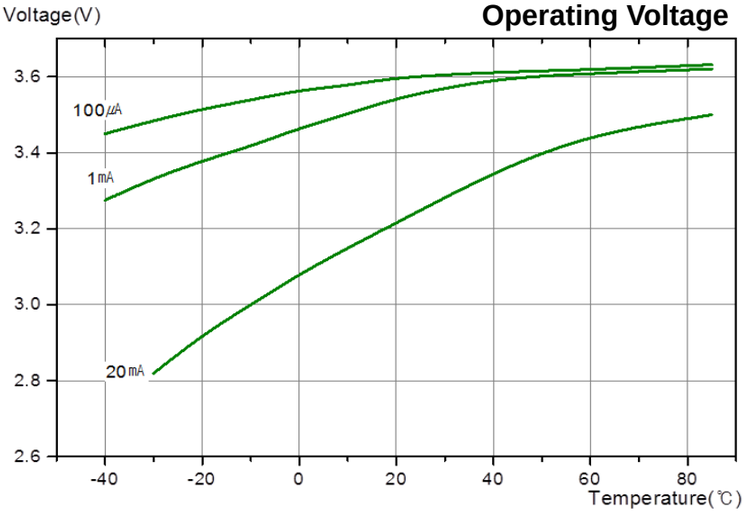
Discharge Characteristics at +20℃



Capacity versus Current



Operating Voltage



Standards

- Safety: UL 1642, IEC 60086-4, IEC 60079-11
- Transport: UN 3090
- Quality: ISO 9001, ISO 14001, IATF 16949
- Environment: RoHS, REACH

XLP-055F

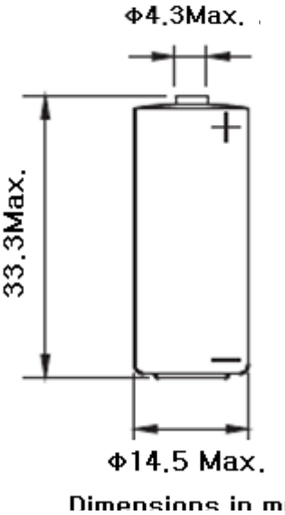
SIZE:2/3AA, ER14335

SPECIFICATIONS

(Typical values stored at 20℃ for one year)

◈ Nominal capacity (@ 1mA/20℃/68℉/2.0V cut-off)	1.65Ah
◈ Nominal voltage	3.6V
◈ Max. recommended continuous current (Higher current can be available upon consulting)	60mA
◈ 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.*



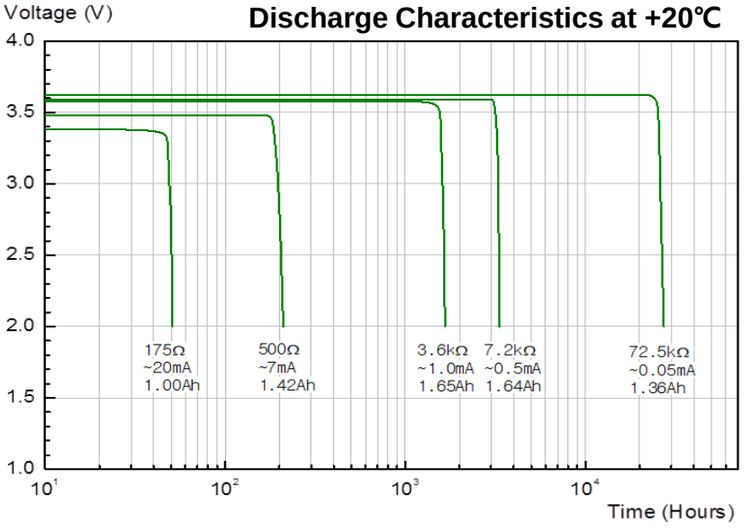
Available Terminal Type

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

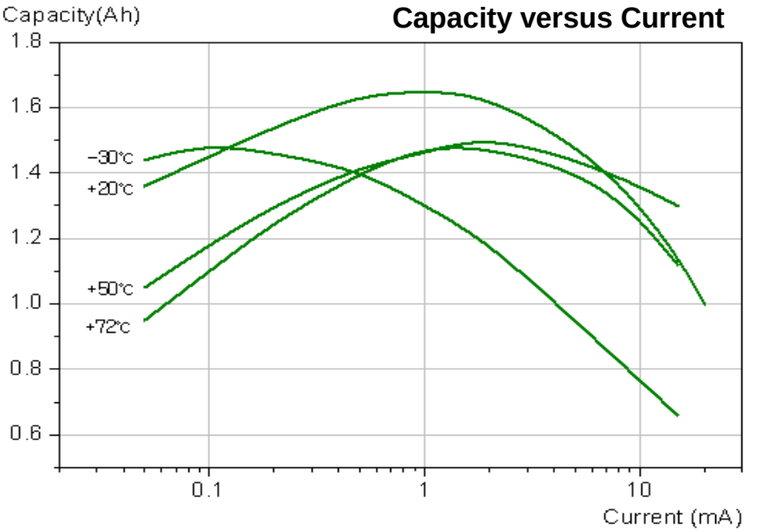
Storage Condition

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

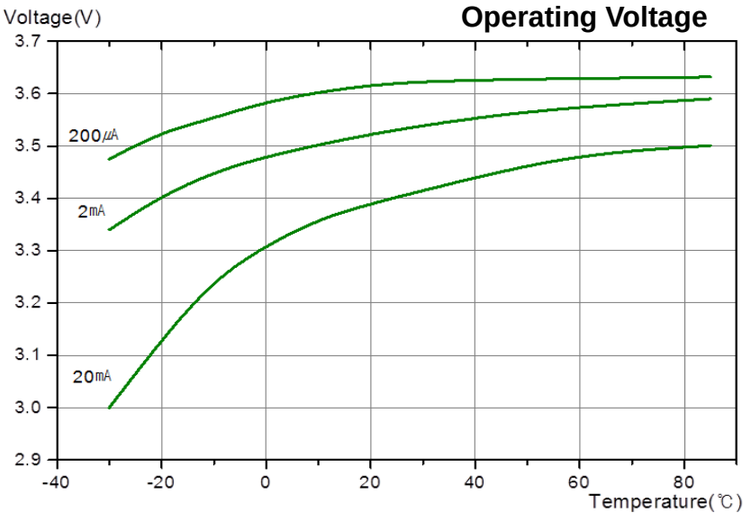
Discharge Characteristics at +20℃



Capacity versus Current



Operating Voltage



Standards

- Safety: UL 1642, IEC 60079-11
- Transport: UN 3090
- Quality: ISO 9001, ISO 14001, IATF 16949
- Environment: RoHS, REACH

XLP-060F

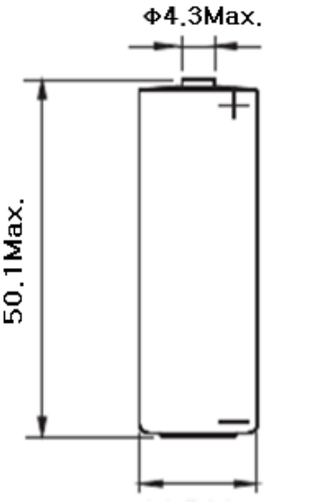
SIZE:AA, ER14505

SPECIFICATIONS

(Typical values stored at 20℃ for one year)

◈ Nominal capacity (@ 1mA/20℃/68℉/2.0V Cut-Off)	2.6Ah
◈ 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

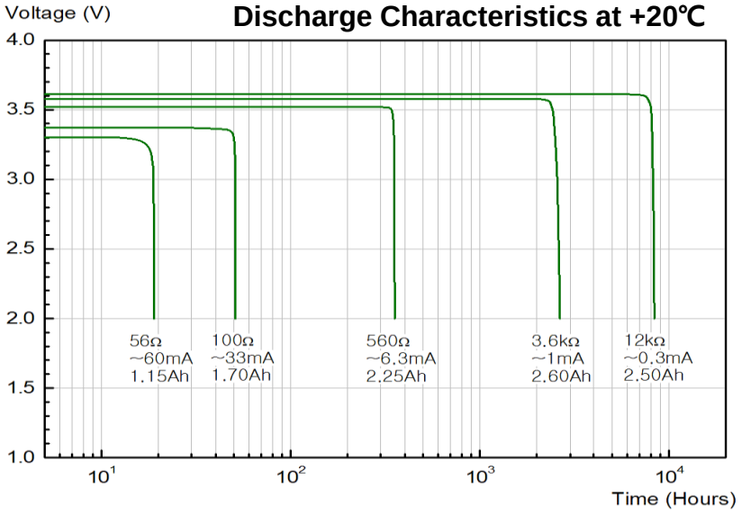
Available Terminal Type

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

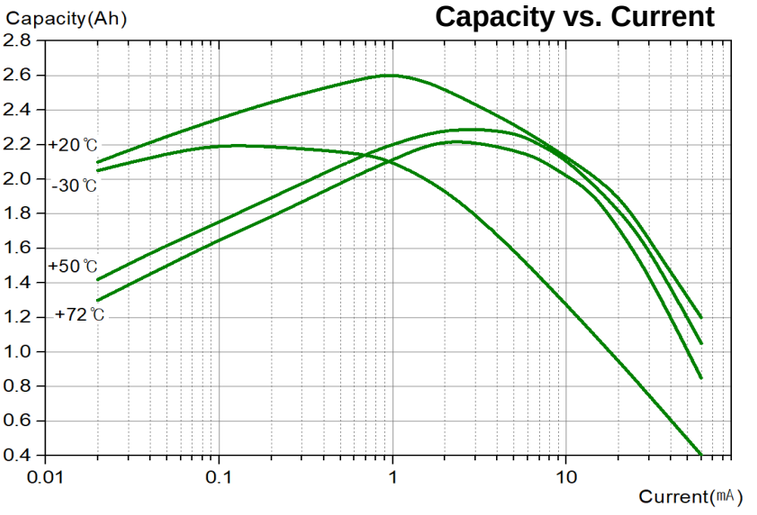
Storage Condition

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

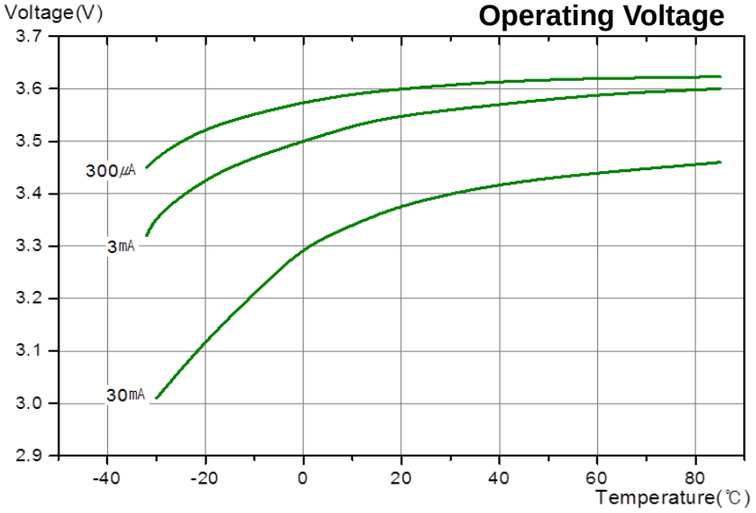
Discharge Characteristics at +20℃



Capacity vs. Current



Operating Voltage



Standards

- Safety: UL 1642, IEC 60086-4, IEC 60079-11
- Transport: UN 3090
- Quality: ISO 9001, ISO 14001, IATF 16949
- Environment: RoHS, REACH

XL-050H

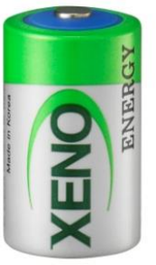
SIZE:1/2AA, ER14252

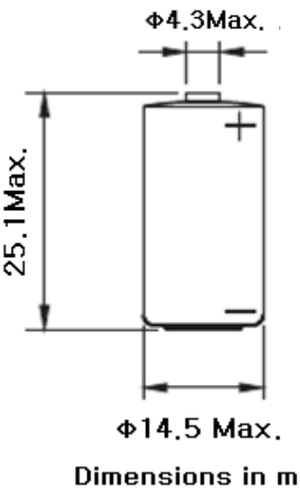
SPECIFICATIONS

(Typical values stored at 20℃ for one year)

◈ Nominal capacity (@ 1mA/20℃/68℉/2.0V cut-off)	0.85Ah
◈ 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 ~+130℃
◈ 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.*





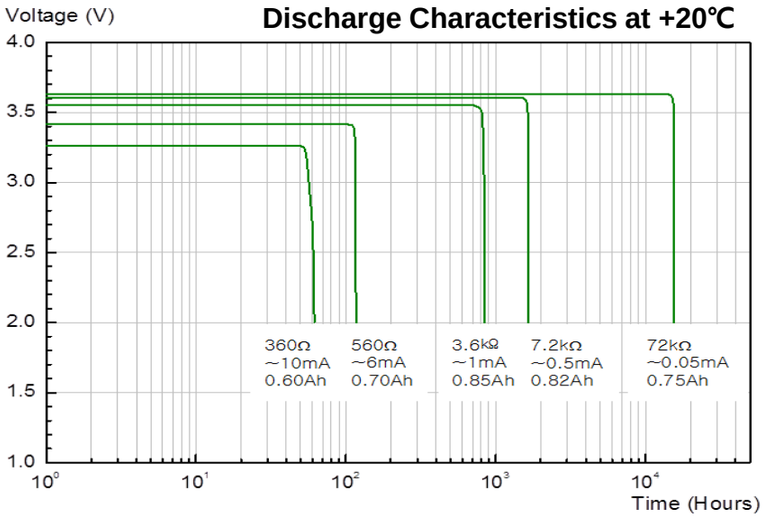
Available Terminal Type

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

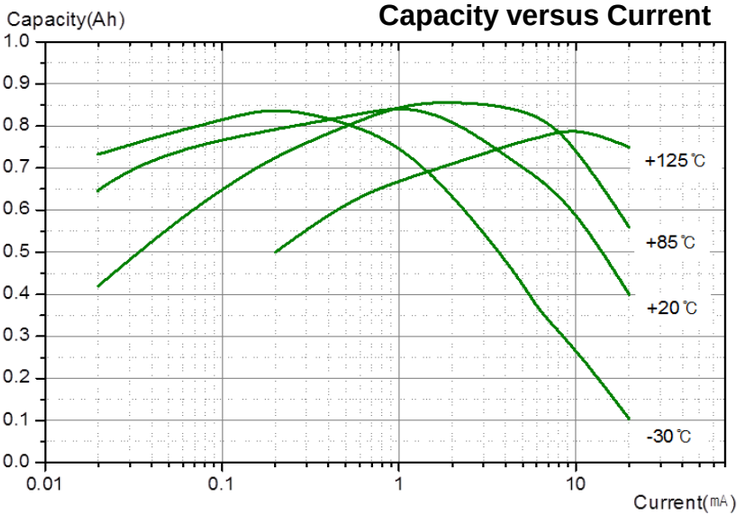
Storage Condition

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

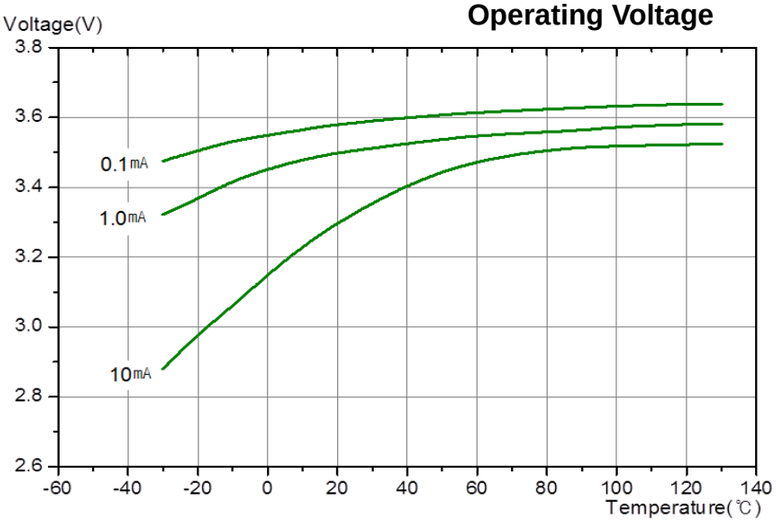
Discharge Characteristics at +20℃



Capacity versus Current



Operating Voltage



Standards

- Safety: UL 1642, IEC 60086-4
- Transport: UN 3090
- Quality: ISO 9001, ISO 14001, IATF 16949
- Environment: RoHS, REACH

XL-060H

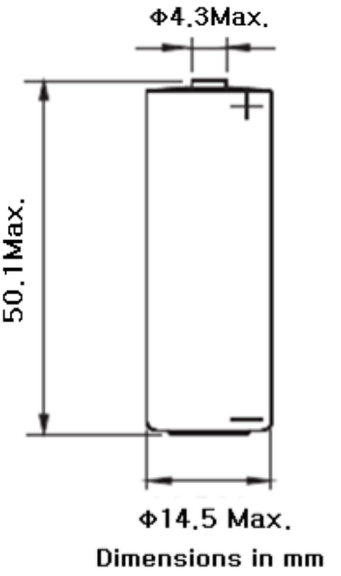
SIZE:AA, ER14505

SPECIFICATIONS

(Typical values stored at 20℃ for one year)

◈ Nominal capacity (@ 2mA/20℃/68℉/2.0V cut-off)	1.8Ah
◈ 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 ~+130℃
◈ 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

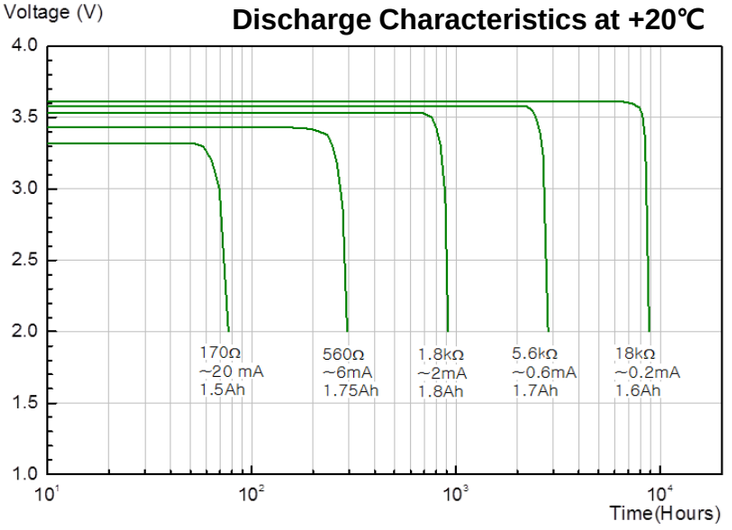
Available Terminal Type

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

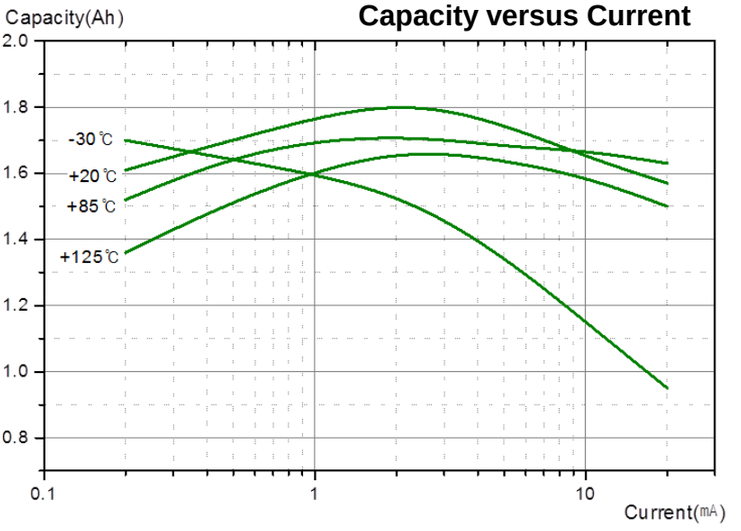
Storage Condition

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

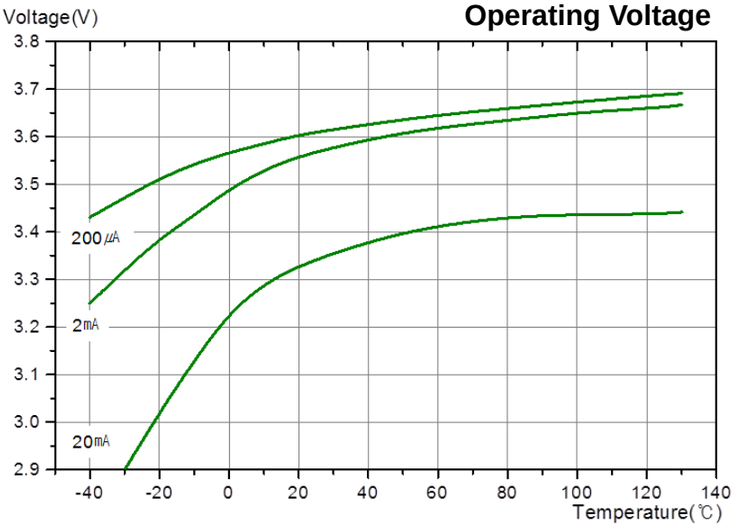
Discharge Characteristics at +20℃



Capacity versus Current



Operating Voltage



Standards

- Safety: UL 1642, IEC 60086-4
- Transport: UN 3090
- Quality: ISO 9001, ISO 14001, IATF 16949
- Environment: RoHS, REACH

XL-2059F

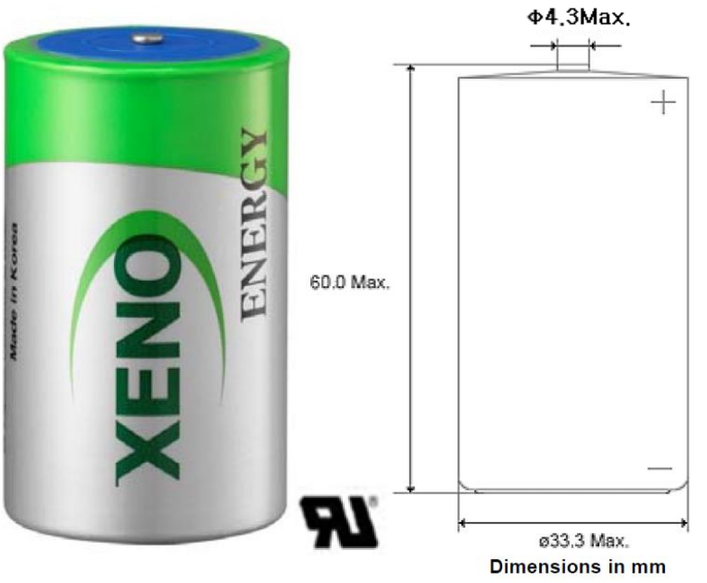
SIZE:D, ER32L615

SPECIFICATIONS

(Typical values stored at 20℃ for one year)

- ◈ Nominal capacity 16Ah
  (@ 30mA/20℃/68℉/2.0V cut-off)
- ◈ Nominal voltage 3.9V
- ◈ Max. recommended continuous current 230mA
  (Higher current can be available upon consulting)
- ◈ Max. pulse current capability ★ 400mA
- ◈ Operating temperature range -40 ~+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.*

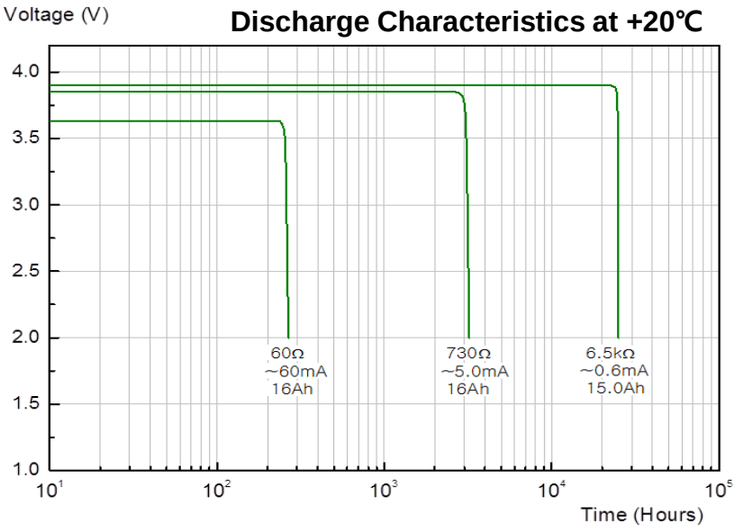


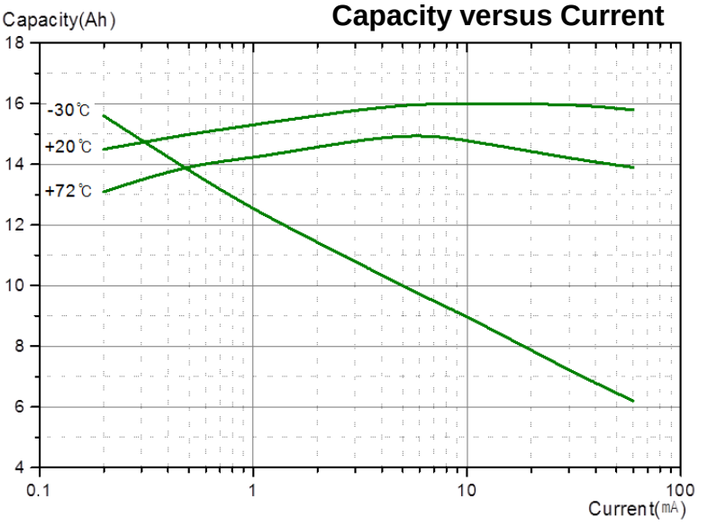
Available Terminal Type

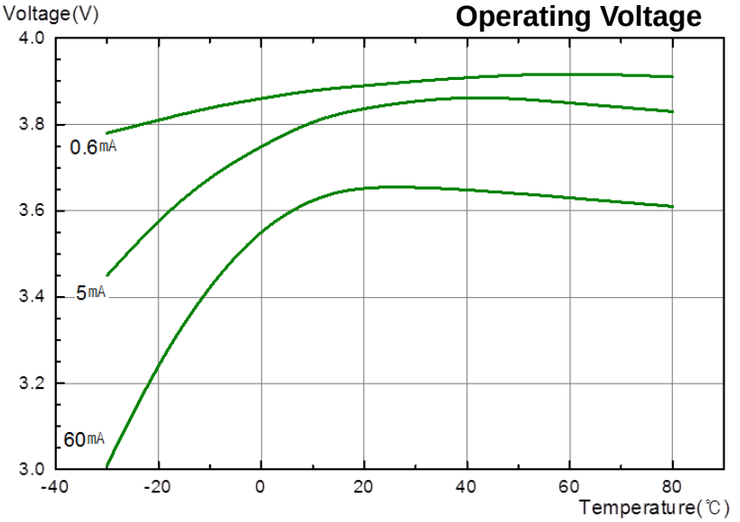
STD, T1, AX, Wire, Connector

Storage Condition

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







Standards

- Safety: UL 1642
- Transport: UN 3090
- Quality: ISO 9001, ISO 14001, IATF 16949
- Environment: RoHS, REACH

XL-205F

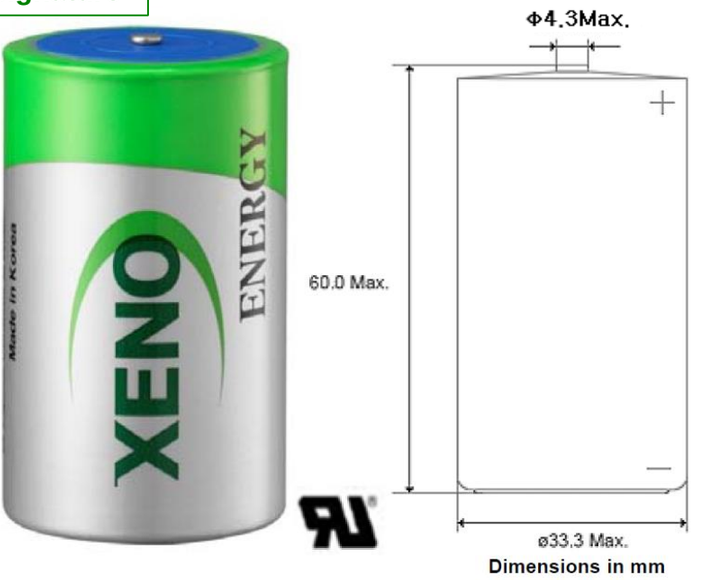
SIZE:D, ER32L615

SPECIFICATIONS

Low Magnetic Signature

(Typical values stored at 20℃ for one year)

◈ Nominal capacity (@ 5mA/20℃/68℉/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.*

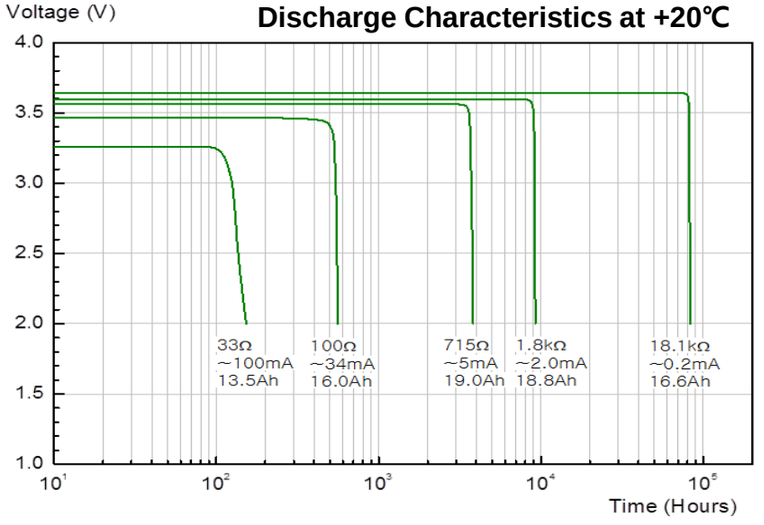
Available Terminal Type

STD, T1, AX, Wire, Connector

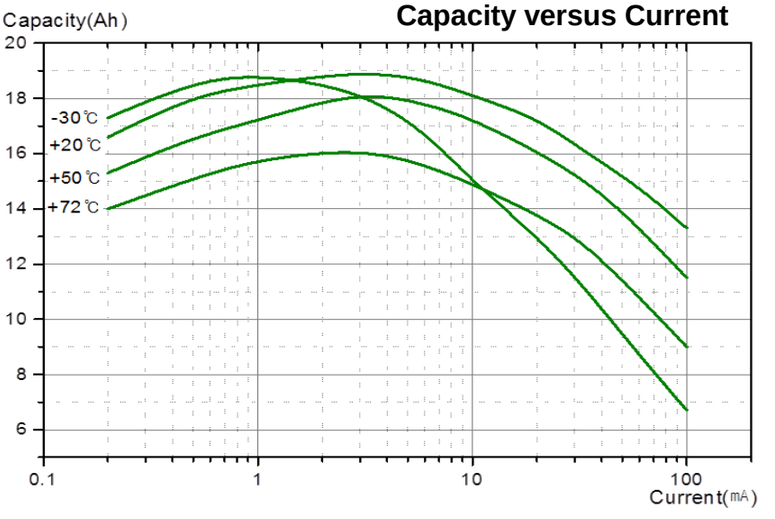
Storage Condition

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

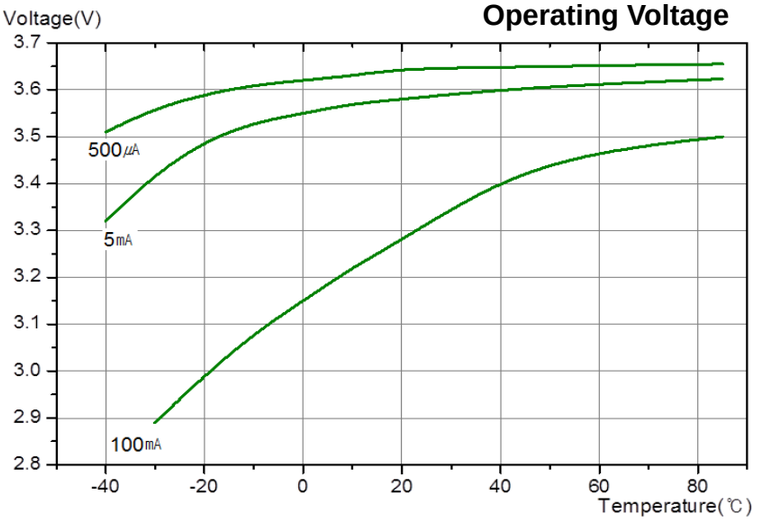
Discharge Characteristics at +20℃



Capacity versus Current



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

Standards

- Safety: UL 1642, IEC 60086-4, IEC 60079-11
- Transport: UN 3090
- Quality: ISO 9001, ISO 14001, IATF 16949
- Environment: RoHS, REACH

XENO-XL-050F/CASE

SIZE:1/2AA, ER14252

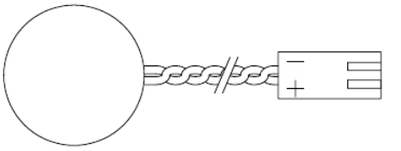
SPECIFICATIONS

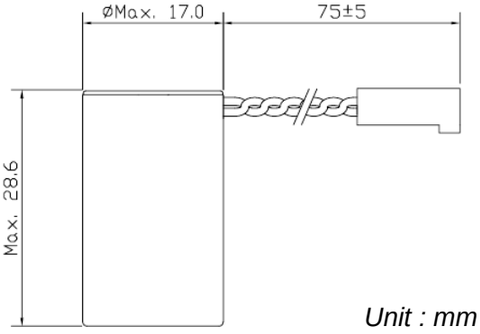
(Typical values stored at 20℃ for one year)

- Nominal capacity 1.2Ah
  (at 1mA/20℃/68℉/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℃
- Case ABS AF366F, UL94 V-0 FR
- Lithium metal content approx. 0.3g
- Weight / Volume 9g / 4.3㎤
- UL Approval MH28122

Max Recommended Continuous Current: *Continuous current permitting 15% of the nominal capacity to be achieved at +20℃ 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℃, 1mA / ㎠ base current with fresh batteries.*



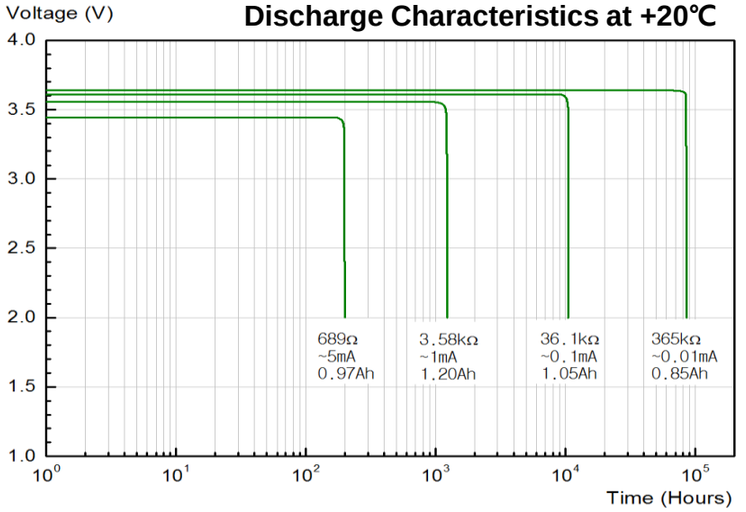


Unit : mm

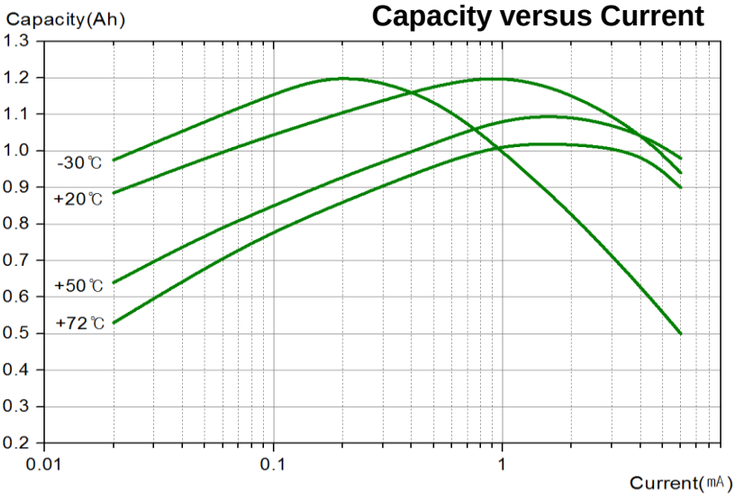
Storage Condition

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

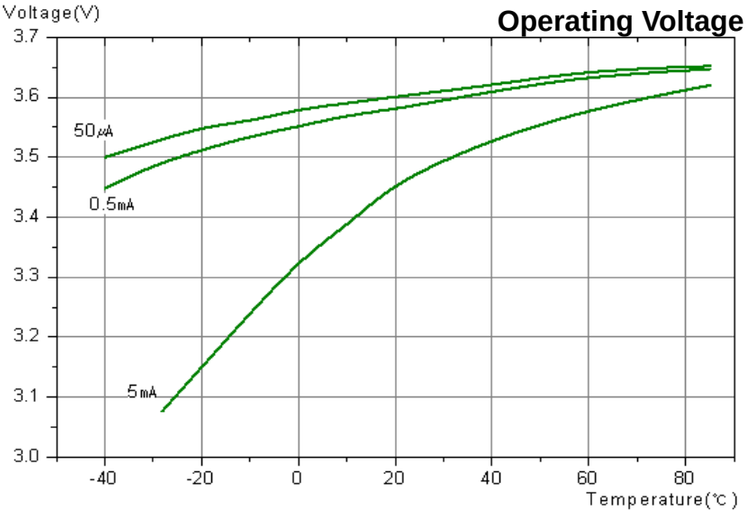
Discharge Characteristics at +20℃



Capacity versus Current



Operating Voltage



Standards

- Safety: UL 1642
- Transport: UN 3090
- Quality: ISO 9001, ISO 14001, IATF 16949
- Environment: RoHS, REACH