

## Company-Profile

XenoEnergy has more than 15 years experience and know how in R&D, Engineering and Production of Lithium Batteries. We are an independent company, using our experience and know how for the benefit and the success of our customers, free from any group decision.

Our objective is to help our customers to solve their energy- and battery problems, technically and economically, based on along term partnership co-operation. We know that the success of our customers will be also our success.



## Characteristics of our Products

- **High Cell-Voltage**, a Nominal Open Circuit Voltage (OCV) of 3.65 Volt. This is higher than the most existing battery-system.
- **High Energy Density**, up to 700 Wh/kg and 1380 Wh/l
- **Wide Temperature Range**, -55°C to +85°C, (max. +130°C, higher temperatures on request)
- **Low Self-discharge**, of 1% - 2% at RT permits a very long shelf life of more than 10 years.
- **Highest Reliability and Safety**, due to bobbin type construction and hermetically sealed case with glass-to-metal seal and laser welding.
- **Best Pulse-Behavior**, low voltage drop, even after temperature cycles or temperature storage.



## Certificates and Approvals

- ISO 9001; IATF16949:2016; ISO14001; UL-Approval;
- Ex-Approval; IMDS-Approval (automotive industry), UN-Approval, ATEX, RoHS, WEEE

## Safety-Tests

▪ Short Circuit Test	UL1642 No.10	MIL-B-49461 (ER) No.4.8.10
▪ Abnormal Charging Test	UL1642 No.11 A	
▪ Forced Discharge Test Crush	UL1642 No.11B	MIL-B-49461 (ER) No.8.13.1
▪ Test	UL1642 No.12	
▪ Impact Test	UL1642 No.13	
▪ Shock Test	UL1642 No.14A	MIL-B-49461 (ER) No.4.8.5
▪ Vibration Test	UL1642 No.15	MIL-B-49461 (ER) No.4.8.6
▪ Drop Test	UL1642 No.16	MIL-B-49461 (ER) No.4.8.3
▪ Heating Test	UL1642 No.18A	
▪ Temperature Cycling Test	UL1642 No.18B	MIL-STD-331, Test 113.1
▪ Altitude Test	UL1642 No.18C	

## Product Series

### XL - 000F Series

- Maximum capacity
- Excellent service life  
(can be over 10 years)
- Very low self-discharge
- Memory back-up
- low current application
- Reasonable TMV reaction

Product	XL-050F	XL-055F	XL-060F
ANSI Standard	1/2AA	2/3AA	AA
IEC Standard	ER14252	ER14335	ER14505
Nominal Voltage	3.6V	3.6V	3.6V
Nominal Capacity	1.2Ah	1.65Ah	2.6Ah
Max. Cont. Current	30mA	40mA	60mA
Max. Pulse Current	60mA	90mA	120mA
Operating Temperature	-55~+85°C	-55~+85°C	-55~+85°C
Diameter (Max)	14.5mm	14.5mm	14.5mm
Height (Max)	25.1mm	33.3mm	50.1mm
Weight	9g	12g	17g

Product	XL-100F	XL-145F	XL-205F
ANSI Standard	A	C	D
IEC Standard	ER17500	ER26500	ER32L615
Nominal Voltage	3.6V	3.6V	3.6V
Nominal Capacity	3.6Ah	8.5Ah	19Ah
Max. Cont. Current	60mA	100mA	230mA
Max. Pulse Current	200mA	230mA	400mA
Operating Temperature	-55~+85°C	-55~+85°C	-55~+85°C
Diameter (Max)	16.8mm	25.8mm	33.3mm
Height (Max)	50.7mm	49.0mm	60.0mm
Weight	24g	51g	98g

## Product Series

### XLP - 000F Series

- Maximum capacity
- Excellent service life (can be over 10 years)
- Low self-discharge
- Medium current application
- Excellent TMV reaction

### XL - 000H Series

- Extended temperature range (max. +130°C)
- Safety design

### Custom Type

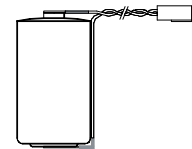
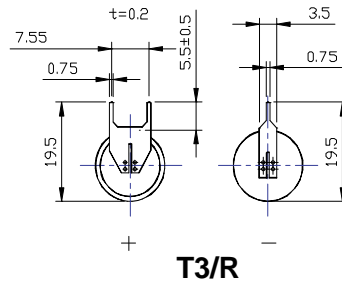
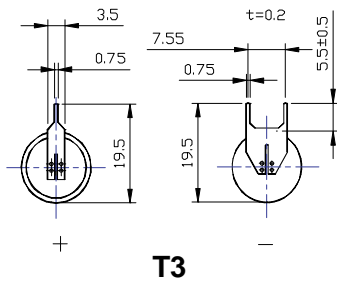
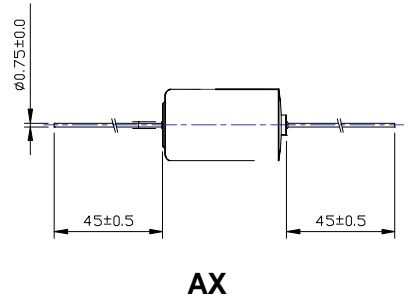
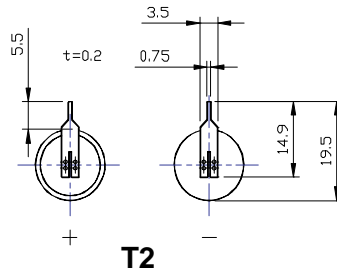
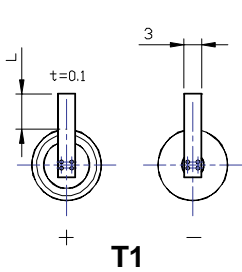
- 3.9V Battery (XL-0009F Series)
- Low Magnetic Battery (-LM Series)
- Other Battery Packs

Product	XLP-050F	XLP-055F	XLP-060F	XL-050H
ANSI Standard	1/2AA	2/3AA	AA	1/2AA
IEC Standard	ER14252	ER14335	ER14505	ER14252
Nominal Voltage	3.6V	3.6V	3.6V	3.6V
Nominal Capacity	1.2Ah	1.65Ah	2.6Ah	0.8Ah
Max. Cont. Current	30mA	60mA	60mA	20mA
Max. Pulse Current	100mA	150mA	200mA	60mA
Operating Temperature	-55~+85°C	-55~+85°C	-55~+85°C	-55~+130°C
Diameter (Max)	14.5mm	14.5mm	14.5mm	14.5mm
Height (Max)	25.1mm	33.3mm	50.1mm	25.1mm
Weight	9g	12g	17g	9g

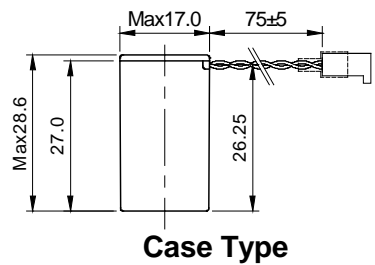
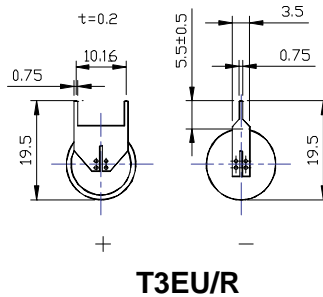
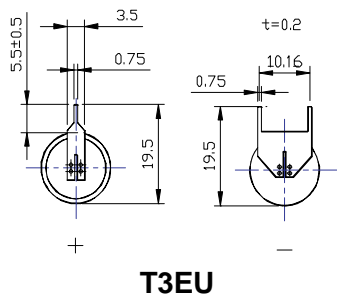
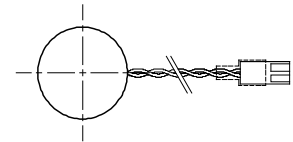
Product	XL-060H	XL-2059F	XL-205F-LM
ANSI Standard	AA	D	D
IEC Standard	ER14505	ER32L615	ER32L615
Nominal Voltage	3.6V	3.9V	3.6V
Nominal Capacity	1.7Ah	16Ah	19Ah
Max. Cont. Current	30mA	230mA	230mA
Max. Pulse Current	120mA	400mA	400mA
Operating Temperature	-55~+130°C	-40~+85°C	-55~+85°C
Diameter (Max)	14.5mm	33.3mm	33.3mm
Height (Max)	50.1mm	60.0mm	60.0mm
Weight	17g	105g	98g

# Terminals

(Unit : mm)



**Connector Type**



[ Customer-Specific types or battery packs on request.]

## XENOENERGY CO., LTD.

70-7, Muha-Ro, Hwaseong-Shi, Kyonggi-Do, Korea, 445-020

**Telephone** (+82)-31-355-3511 / (+82)-70-8277-6310~3 (Sales Direct)

**Telefax** (+82)-31-355-3513

**E-Mail** [global@xenoenergy.com](mailto:global@xenoenergy.com), [info@xenoenergy.com](mailto:info@xenoenergy.com)