



Power solution to your Imagination



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 voltage of 3.6 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. +150°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: ISO13485 (medical), UL-Approval
- Ex-Approval: IMDS-Approval (automotive industry), UN-Approval, ATEX, RoHS



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	UL1642 No.11B	MIL-B-49461 (ER) No.8.13.1
▪ Crush 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 and low current application
- Reasonable TMV reaction

XL - 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. +150°C)
- Safety design

Custom Type

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

Product	XL-050F	XL-055F	XL-060F	XL-100F	XL-145F	XL-205F
ANSI Standard	1/2AA	2/3AA	AA	A	C	D
IEC Standard	ER14252	ER14335	ER14505	ER17500	ER26500	ER32L615
Nominal Voltage	3.6V	3.6V	3.6V	3.6V	3.6V	3.6V
Nominal Capacity	1.2Ah	1.65Ah	2.4Ah	3.6Ah	8.5Ah	19Ah
Max. Cont. Current	30mA	40mA	60mA	100mA	150mA	230mA
Max. Pulse Current	60mA	90mA	120mA	200mA	230mA	400mA
Operating Temperature	-55~+85℃	-55~+85℃	-55~+85℃	-55~+85℃	-55~+85℃	-55~+85℃
Diameter (Max)	14.5mm	14.5mm	14.5mm	16.8mm	25.8mm	33.6mm
Height (Max)	25.1mm	33.3mm	50.1mm	50.7mm	50.7mm	59.0mm
Weight	9g	12g	17g	24g	51g	98g

Product	XL-210F	XL-2450F	XL-013F	XLP-050F	XLP-055F	XLP-060F
ANSI Standard	1/10D	-	5008LC	1/2AA	2/3AA	AA
IEC Standard	ER33L65	ER2450	ER11110	ER14252	ER14335	ER14505
Nominal Voltage	3.6V	3.6V	3.6V	3.6V	3.6V	3.6V
Nominal Capacity	1.0Ah	0.6Ah	0.24Ah	1.2Ah	1.65Ah	2.4Ah
Max. Cont. Current	20mA	15mA	10mA	30mA	40mA	60mA
Max. Pulse Current	40mA	30mA	20mA	100mA	150mA	200mA
Operating Temperature	-55~+85℃	-55~+85℃	-55~+85℃	-55~+85℃	-55~+85℃	-55~+85℃
Diameter (Max)	33.2mm	24.5mm	11.6mm	14.5mm	14.5mm	14.5mm
Height (Max)	7.0mm	6.5mm	11.0mm	25.1mm	33.3mm	50.1mm
Weight	19.2g	10g	3g	9g	12g	17g

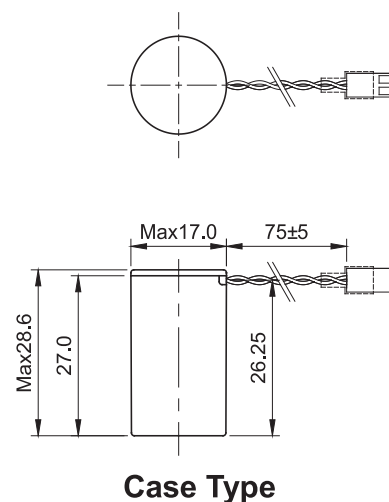
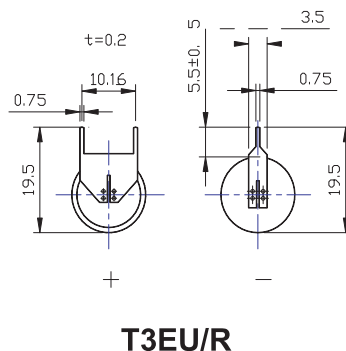
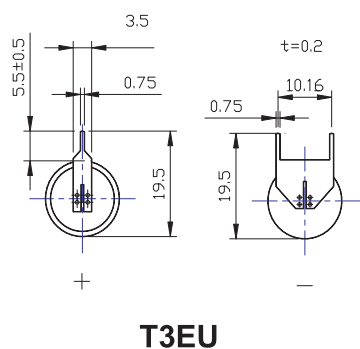
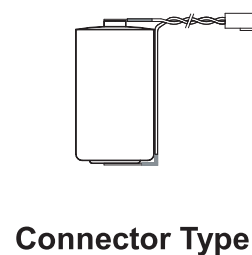
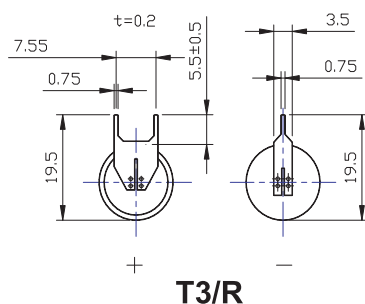
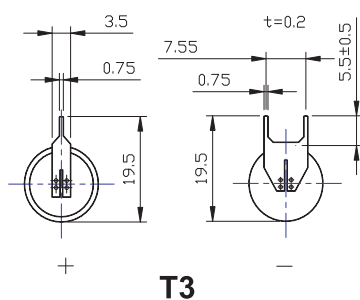
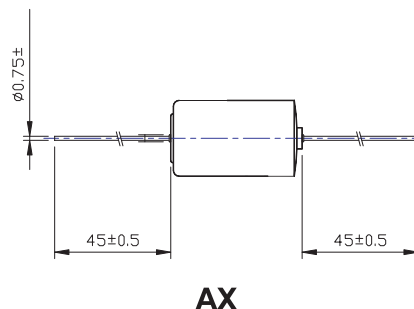
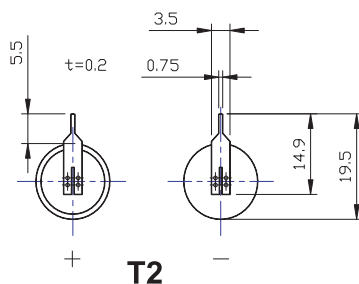
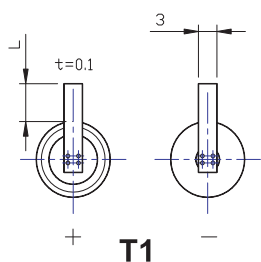
Product	XL-050H	XL-060H	XL-1459F	XL-2059F	XL-205F-LM	XL-9V
ANSI Standard	1/2AA	AA	C	D	D	1/2AA 3S
IEC Standard	ER14252	ER14505	ER26500	ER32L615	ER32L615	ER14252 3S
Nominal Voltage	3.6V	3.6V	3.9V	3.9V	3.6V	10.8V
Nominal Capacity	0.8Ah	1.7Ah	8.0Ah	18Ah	19Ah	1.2Ah
Max. Cont. Current	20mA	40mA	150mA	230mA	250mA	30mA
Max. Pulse Current			230mA	400mA	400mA	100mA
Operating Temperature	-55~+130℃	-55~+130℃	-55~+85℃	-55~+85℃	-55~+85℃	-55~+85℃
Diameter (Max)	14.5mm	14.5mm	25.8mm	33.6mm	33.6mm	26.8mm
Height (Max)	25.1mm	50.1mm	49.0mm	59.0mm	59.0mm	49.1mm
Weight	9g	17g	51g	98g	98g	29g

Applications



Terminals

(Unit : mm)



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

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