

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 energyand 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 ISO 9001; TS16949; 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 | XL-100F | XL-145F | XL-205F |
|-----------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| ANSI Standard | 1/2AA | 2/3AA | AA | А | С | 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'C | -55~+85'C | -55~+85'C | -55~+85'C | -55~+85'C | -55~+85'C |
| Diameter (Max) | 14.5mm | 14.5mm | 14.5mm | 16.8mm | 25.8mm | 33.3mm |
| Height (Max) | 25.1mm | 33.3mm | 50.1mm | 50.7mm | 49.0mm | 60.0mm |
| Weight | 9g | 12g | 17g | 24g | 51g | 98g |

| Product | XL-210F | XL-2450F | XL-414F | XL-420F |
|-----------------------|-----------|-----------|-----------|-----------|
| ANSI Standard | 1/10D | - | CC | DD |
| IEC Standard | ER32L65 | ER2450 | ER261020 | ER341245 |
| Nominal Voltage | 3.6V | 3.6V | 3.6V | 3.6V |
| Nominal Capacity | 1.0Ah | 0.55Ah | 15Ah | 35Ah |
| Max. Cont. Current | 20mA | 10mA | 250mA | 450mA |
| Max. Pulse Current | 40mA | 20mA | 530mA | 1000mA |
| Operating Temperature | -55~+85'C | -55~+85'C | -55~+85'C | -55~+85'C |
| Diameter (Max) | 33.2mm | 24.5mm | 26.0mm | 32.9mm |
| Height (Max) | 7.0mm | 5.6mm | 100.0mm | 124.5mm |
| Weight | 19.2g | 9g | 95g | 205g |

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

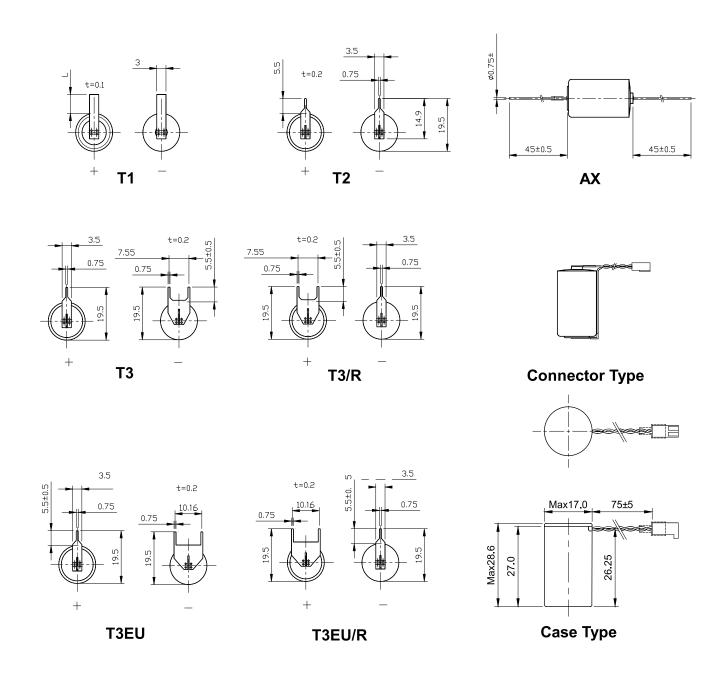
| Product | XLP-050F | XLP-055F | XLP-060F | XL-050H | XL-060H |
|-----------------------|-----------|-----------|-----------|------------|------------|
| ANSI Standard | 1/2AA | 2/3AA | AA | 1/2AA | AA |
| IEC Standard | ER14252 | ER14335 | ER14505 | ER14252 | ER14505 |
| Nominal Voltage | 3.6V | 3.6V | 3.6V | 3.6V | 3.6V |
| Nominal Capacity | 1.2Ah | 1.65Ah | 2.4Ah | 0.8Ah | 1.7Ah |
| Max. Cont. Current | 30mA | 40mA | 60mA | 10mA | 30mA |
| Max. Pulse Current | 100mA | 150mA | 200mA | | |
| Operating Temperature | -55~+85'C | -55~+85'C | -55~+85'C | -55~+130'C | -55~+130'C |
| Diameter (Max) | 14.5mm | 14.5mm | 14.5mm | 14.5mm | 14.5mm |
| Height (Max) | 25.1mm | 33.3mm | 50.1mm | 25.1mm | 50.1mm |
| Weight | 9g | 12g | 17g | 9g | 17g |

| Product | XL-1459F | XL-2059F | XL-060F-LM | XL-205F-LM | XL-9V |
|-----------------------|-----------|-----------|------------|------------|------------|
| ANSI Standard | С | D | AA | D | 1/2AA 3S |
| IEC Standard | ER26500 | ER32L615 | ER14505 | ER32L615 | ER14250 3S |
| Nominal Voltage | 3.9V | 3.9V | 3.6V | 3.6V | 10.8V |
| Nominal Capacity | 8.0Ah | 18Ah | 2.4Ah | 19Ah | 1.2Ah |
| Max. Cont. Current | 150mA | 230mA | 60mA | 250mA | 30mA |
| Max. Pulse Current | 230mA | 400mA | 120mA | 400mA | 100mA |
| Operating Temperature | -55~+85'C | -55~+85'C | -55~+85'C | -55~+85'C | -55~+85'C |
| Diameter (Max) | 25.8mm | 33.3mm | 14.5mm | 33.3mm | 26.8mm |
| Height (Max) | 49.0mm | 60.0mm | 50.1mm | 60.0mm | 49.1mm |
| Weight | 51g | 98g | 17g | 98g | 29g |



Terminals

(Unit : mm)



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

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