



Power solution to your Imagination

XenoEnergy, the manufacturer of Li-SOCl₂ batteries, is organized with the professional human resources who have for 20 years of the experience in lithium battery research, development and production. XenoEnergy provides satisfaction to customers with high performance and top quality of products.

XENO
ENERGY

WHAT WE OFFER

- Technology and Experience since **1997**
- **3.6V** Lithium Thionyl Chloride(Li-SOCl₂) Batteries
- **3.9V** Lithium Sulfuryl Chloride(Li-SO₂Cl₂) Batteries
- Highest performance and Best quality batteries.



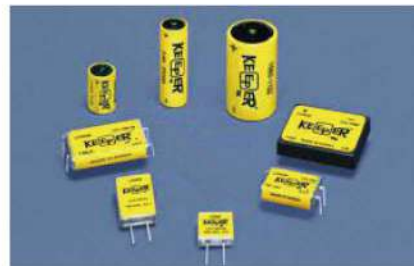
Characteristics of Products

- **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 less 1% per year at RT
- **Highest Reliability and Safety**, 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.



Technical collaboration

- **XenoEnergy** has technical collaboration with EaglePicher in USA since 2002.
- Also, **XenoEnergy** manufactures KEEPERS brand of Eagle Picher based on OEM production.



Certificates and Approvals

- ISO9001, ISO14001
- IATF16949
- UL1642
- ATEX
- IEC60086-4
- RoHS, REACH
- WEEE
- UN38.3-Approval
- IMDS-Approval
- MIL-B49461-Approval

National Stock Numbers

Product	NSN
XL-050F	6135-01-370-2599
XL-060F	6135-01-301-8776
XL-100F	6135-01-524-7621
XL-145F	6135-01-421-1052
XL-205F	6135-01-463-2445
XL-050H	6135-01-691-0750

Lithium Primary Batteries

Series		3.6V series						3.9V series		High Temperature series	
Model	General type	XL-050F	XL-055F	XL-060F	XL-100F	XL-145F	XL-205F	XL-1459F	XL-2059F	XL-050H	XL-060H
	Pulse type	XLP-050F	XLP-055F	XLP-060F	-	-	-	-	-	-	-
	ANSI Standard	1/2AA	2/3AA	AA	A	C	D	C	D	1/2AA	AA
	IEC Standard	ER14252	ER14335	ER14505	ER17500	ER26500	ER32615	ER26500	ER32615	ER14252	ER14505
	Nominal Voltage	3.6V	3.6V	3.6V	3.6V	3.6V	3.6V	3.9V	3.9V	3.6V	3.6V
	Nominal Capacity	1.2Ah	1.65Ah	2.6Ah	3.6Ah	8.5Ah	19Ah	7.5Ah	16Ah	0.85Ah	1.8Ah
	Max. Cont. Current	30mA	40mA	60mA	100mA	150mA	230mA	150mA	230mA	30mA	60mA
	Max. Pulse Current	60/100mA	90/150mA	120/200mA	150mA	230mA	400mA	230mA	400mA	60mA	120mA
	Operating Temperature	-55~+85°C	-55~+85°C	-55~+85°C	-55~+85°C	-55~+85°C	-55~+85°C	-55~+85°C	-55~+85°C	-55~+130°C	-55~+130°C

Xeno Lithium Ion Capacitors

3.6V and 3.9V battery packs with XLC series are to fulfill the demand of today's high performance. This combination deliver the added capacity and energy density required to handle high current pulses.

Key Features

- Low Self Discharge
- Low leakage
- Wide Operating Temperature
- High Capacitance

Model	0820	1030	1325	1335	1640
Rated Voltage(V)	3.8				
Capacitance(F) @ 25°C, #1	30	100	150	250	500
Self Discharge(V) @ 25°C, #1	Over 97%				
Pulse Current(A) @ 25°C, #2	0.5	2	3	5	10
Weight (g)	1.9	4.2	6.2	8.2	15

#1 Reference IEC62813 4.2

#2 1sec. Discharge to 3.2V



XenoEnergy Market Areas of Expertise



Model	STD	T1	T2	T3	AX	Wire or Connector	Case
XL-050F	•	•	•	•	•	•	•
XL-055F	•	•	•	•	•	•	
XL-060F	•	•	•	•	•	•	
XL-100F	•	•	•	•	•	•	
XL-145F	•	•	•	•	•	•	
XL-205F	•	•	•	•	•	•	
XL-1459F	•	•	•	•	•	•	
XL-2059F	•	•	•	•	•	•	
XL-050H	•	•	•	•	•	•	•
XL-060H	•	•	•	•	•	•	

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