

VL 34570 xlr

Rechargeable Li-ion cell

3.65 V high energy Li-ion cell with robust performance and cycle life

Designed for high energy applications, the VL 34570 xlr cell is designed to provide high energy density, excellent life, robust performance and good performance under high temperature applications and operating from 0 °C to 55 °C.

Benefits

- High energy density, nominal capacity with a new cycle life performance
- Low internal resistance, maintaining low impedance and high power
- High temperature and good mechanical stability
- Long life and maintaining the high performance throughout the life

Key features

- High energy density (240 Wh/kg at 1.0V/cell)
- Cycle life more than 2000 cycles at 100% DOD at 55 °C discharge and 0.5C charge rate
- High discharge current
- Low internal resistance
- Low temperature range
- High temperature stability
- Low self-discharge rate

The product meets all major quality, safety and environmental standards

- Safety UL1642, IEC60086-1, IEC60086-2
- RoHS compliant (REACH, REACH SVHC)
- Quality ISO9001, ISO14001, ISO45001, IEC61508, IEC62133
- Environmental: 55 °C/100% RH, 2000h @ 55 °C condition

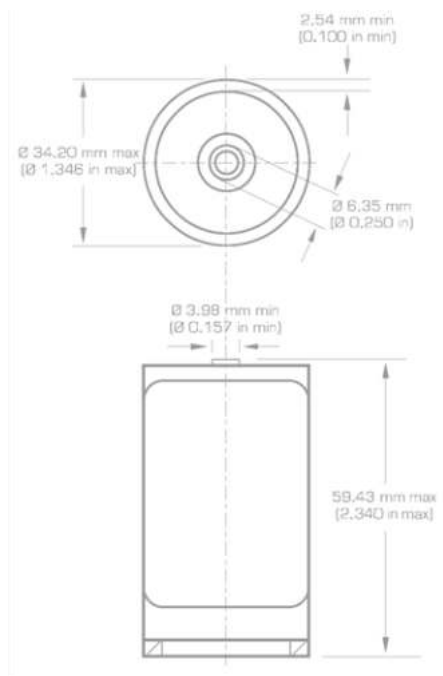
Typical applications

- Embedded computing
- Portable systems
- Logging
- Oil & Gas applications
- Remote monitoring
- Wireless Sensor Networks
- Industrial logging



Typical performance		
Discharge capacity (20 °C, 0.2C, 0.5C, 1C, 2C, 3C, 5C, 10C)	≥ 2.0Ah	
Standard voltage	3.65 V	
Standard charge	1.0V/cell	
Maximum recommended discharge current	0.5C (1.0A)	20 °C to 40 °C
	1.0C (2.0A)	40 °C to 55 °C
Physical characteristics (reference values only)		
Length	34.27 mm	
Height (including terminal)	44.14 mm	
Discharge rate	0.2C	
Volume (including terminal)	100 cm ³	
Typical discharge	1000 cycles	
Operating conditions		
Discharge voltage	1.0V/cell	
Operating mode	Constant current, Constant current voltage	
Operating voltage	2.75 ± 0.05 V	
Maximum recommended current	0.5C (1.0A) 20 °C	
Operating temperatures	Charge	0 °C to +55 °C
	Discharge	0 °C to +55 °C
Storage & transport (reference temperatures)	Maximum	-20 °C to +60 °C
	Allowable	-20 °C to +55 °C

0.2C = 0.2 x capacity in Ah (e.g. 0.2C = 0.2 x 2.0Ah = 0.4A)
 0.5C = 0.5 x capacity in Ah (e.g. 0.5C = 0.5 x 2.0Ah = 1.0A)
 1.0C = 1.0 x capacity in Ah (e.g. 1.0C = 1.0 x 2.0Ah = 2.0A)



Internal assembly

rechargeable. The positive electrode is made of high-purity lead, and the negative electrode is made of pure lead. The electrolyte is a sulfuric acid solution. The battery is designed for deep cycle use and can be discharged to 80% of its rated capacity without damage. The battery is also designed for high-temperature operation and can be used in temperatures up to 60°C.

Internal case features

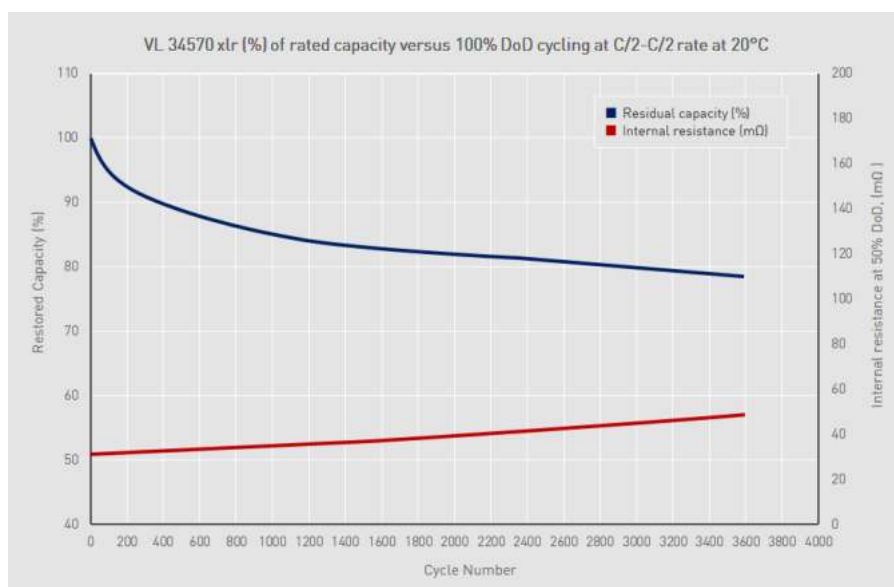
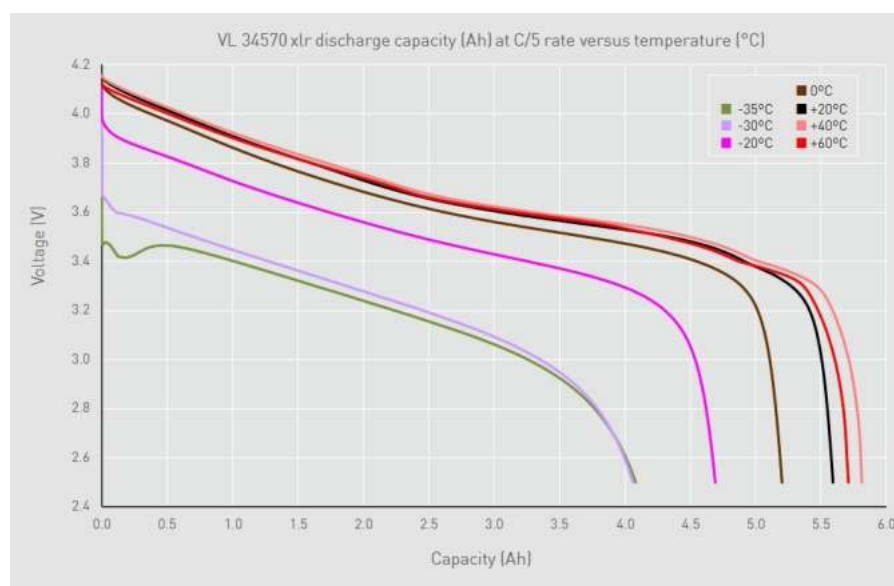
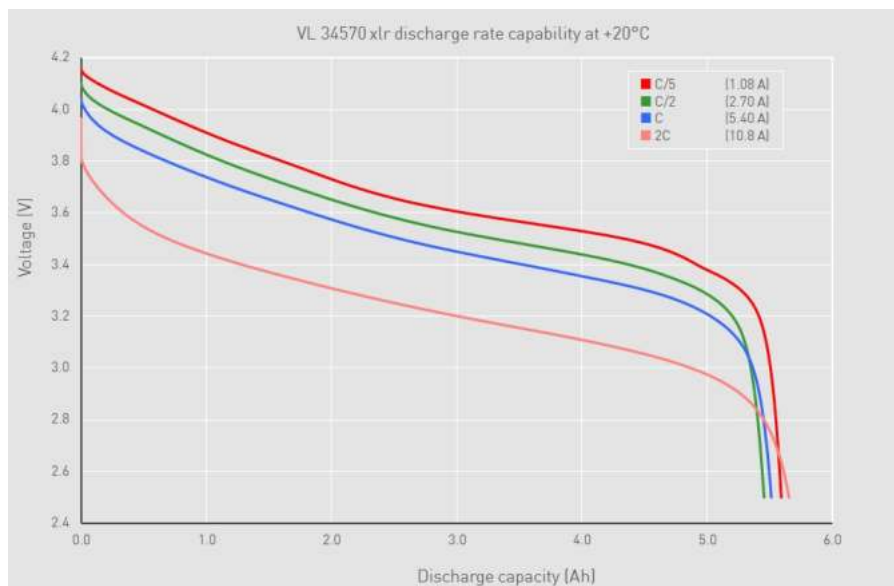
- The product is compliant with the RoHS directive.
- The battery is designed for deep cycle use and can be discharged to 80% of its rated capacity without damage.
- The battery is also designed for high-temperature operation and can be used in temperatures up to 60°C.
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Storage

- The battery should be stored in a cool, dry place.
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Warranty

- The battery is warranted for 3 years or 3600 cycles.
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