

Special Applications CellInSitu ThermoStage

Battery temperature change experimental equipment

- Wide temperature range control
- High-precision temperature control
- In-situ testing function
- Flexible environmental control



One Platform Many Possibilities

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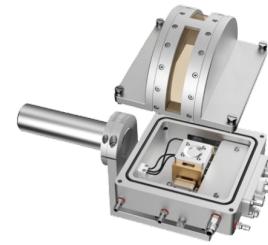
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VLS-316L



VLS-100-100PB



VLS-100-100BB



VLS-60-80BE



VLS-25-120BB

Overview

Introduction to CellInSitu ThermoStage :

Used for in-situ testing during the charging and discharging processes of lithium batteries, supporting various analytical methods such as X-ray diffraction (XRD), Raman spectroscopy/ microscopic observation, etc. The temperature range covers -100 to 100 (some models can reach -190 to 600), with a temperature stability of ± 0.1 . It supports XZ direction adjustment, features quick assembly/disassembly and high repeatable sealing, significantly improving experimental efficiency. Suitable for testing needs of different types of batteries such as button batteries and pouch batteries.

Specifications

Same parameters

Parameter	Description
Temperature control function	All models have heating and cooling capabilities with wide temperature range control
Temperature stability	High stability of ± 0.1 specified for some models
Temperature control rate	Maximum heating/cooling rate up to 10 /min (for some models)
Battery type compatibility	Compatible with various battery types including lithium batteries and button batteries
Sample stage material	Corrosion-resistant metals (316L, silver, copper) used for sample stages
Optical observation support	Support for reflection/transmission optical paths with windows (beryllium or Kapton film)
Experimental environment control	Testing possible under atmospheric conditions
Structural design	Compact design for easy integration with various analytical equipment

Application

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Explore Series

Model	Net Weight	External Dimensions	Sample Stage	Temperature Range
VLS-316L	0.8kg	54mm x 19.2mm	316L	-
VLS-100-100PB	2.1kg	126mm x 205mm x 32mm	Silver; 75mm x 85mm	-100°C ~ 100°C
VLS-100-100BB	3kg	120mm x 120mm x 97.5mm	Copper; 30mm x 30mm	-100°C ~ 100°C
VLS-60-80BE	0.6kg	92.5mm x 75mm x 38mm	Suitable for lithium batteries	-60°C ~ 80°C
VLS-25-120BB	1.2kg	130mm x 90mm x 54.5mm	Suitable for button batteries	-25°C ~ 120°C

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