

BATTERY STORAGE

High-Temperature Lithium Batteries for Aerospace Applications

Explore our range of high-temperature lithium batteries designed for aerospace use, including long-operating-time, quick-activated, ultra-high-power, and micro lithium batteries. Featuring high efficiency, rapid activation, and wide application across missiles and aircraft systems.

High-Temperature Lithium Batteries Overview

Our high-temperature lithium batteries offer specialized solutions for aerospace applications, each designed with unique features like long operational life, rapid activation, and high power output.

1. Long-Operating-Time High-Temperature Lithium Battery

- **Product Features:** Long operating time, long storage life, strong pulse capability.
- **Applications:** Applied in long-range missiles and cruise missiles.

Parameters

Dimension (mm)		Nominal Capacity		Nominal Voltage (V)	Weight (kg)	Product Model and Performance Parameters
85	175	≤180A	1150 s @ 20 A; 750 s @ 30 A	28	≤2.75	2HRD1: [Activation range: 24-33V; Steady current: 19.5 A; Activation time: 1.0 s; Operating time: 100 s]
100	295	≤150A	3000 s @ 20 A; 2000 s @ 30 A	28	≤6.20	2HRD5: [Voltage range: 25-32V; Steady current: 11.7 A; Activation time: 1.5 s; Operating time: 150 s]

2. Quick-Activated High-Temperature Lithium Battery

- **Product Features:** Short activation time at millisecond level; highest activation performance in China.
- **Applications:** Applied in aircraft life-saving ejection seats.

Parameters

Dimension (mm)		Nominal Capacity		Nominal Voltage (V)	Weight (kg)	Product Model and Performance Parameters
40	40	300 s @ 0.25 A	≤7.5A	22	≤7.5	2HRD10ML: [Activation time: 0.1 s; Voltage range: 15-28V; Steady current: 0.25 A; Pulse width: 60 s loaded at 0.3, 1.8, 2.4, and 3.0%]
48	87	300 s @ 3 A	≤10A	25	≤0.2	2HRD25ML: [Activation time: 1 s; Voltage: 15-28V; Pulse: < 10 A; Operating time: 300 s]

3. High-Voltage, Ultra-High-Power High-Temperature Lithium Battery

- **Product Features:** High voltage, ultra-high power output, excellent no-load safety.
- **Applications:** Applied in aviation missile systems.

Parameters

Dimension (mm)		Nominal Capacity		Nominal Voltage (V)	Weight (kg)	Product Model and Performance Parameters
95	290	2400 s @ 10 A; 800 s @ 30 A	≤120A	90	≤5.25	95HRD25ML: [Voltage range: 74-90V; Activation time: 1.2 s; Operating time: 160 s]
110	370	4000 s @ 10 A; 800 s @ 50 A	≤300A	100	≤8.40	110HRD50ML: [Voltage range: 74-90V; Activation time: 1.0 s; Operating time: 90 s]

4. Micro High-Temperature Lithium Battery

- **Product Features:** Small size and lightweight.
- **Applications:** Applied in individual weapons and small caliber shells.

Parameters

Dimension (mm)		Nominal Capacity		Nominal Voltage (V)	Weight (kg)	Product Model and Performance Parameters
18	36	60 s @ 1 A; 15 s @ 3 A	≤6A	28	≤0.035	18HRDML: [Activation time: < 0.5 s; Voltage range: 24-28V; Pulse with 0.05%]
28	52	300 s @ 1 A; 55 s @ 5 A	≤16A	28	≤0.095	28HRDML: [Voltage range: 24-28V; Activation time: 1 s; Operating time: 180 s]