



Lithium ion cells for Aerospace applications LVP series



Overview

The LVP family of Lithium ion cells is optimized for high reliability and low maintenance uses. The cell design is based on our state of the art technology and extensive experiences.

Features

- High energy density
- Excellent discharge characteristics
- Sealed Structure
- No need for maintenance such as electrolyte filling or conditioning cycles
- Low self discharge

Applications

- Aircrafts
- Other high reliability applications

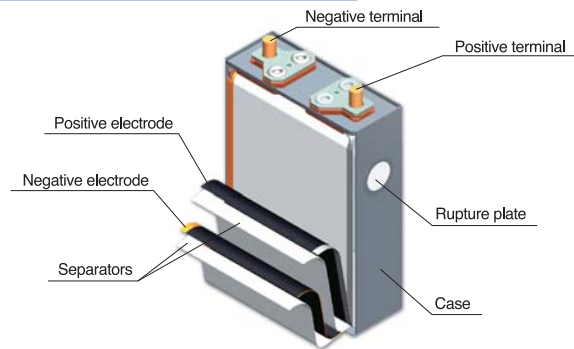
Cell specification

		LVP10	LVP65
Nominal voltage (V)		3.7	
Capacity (Ah)	Rated	10	65
	Nominal	11.5	75
Dimensions(mm)	Width	130	132
	Thickness	21	50
	Height	80	178
Weight (Kg)		0.49	2.75
Specific Energy (Wh/kg)		87	101
Energy Density (Wh/l)		195	232
Maximum charge rate(CA)		1.0	
Maximum discharge rate(CA)		5.0	
Operative ambient temperature range(°C)		LVP10	LVP65
		-18 ~ +65	
Maximum AC impedance at BOL (1kHz, 25°C)		1.4mΩ	0.3mΩ

Technology

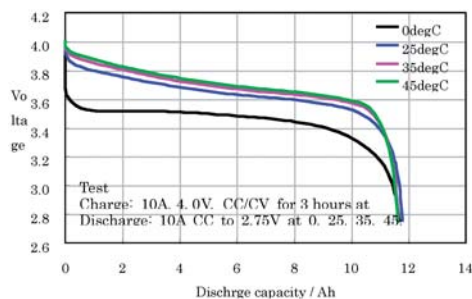
- **Lithium Cobalt Oxide cathode material:**
Provides the best combination of high reliability, high energy storage, and long life.
- **Prismatic shape:**
Allows high packaging efficiency of multi-cell battery

Cell construction

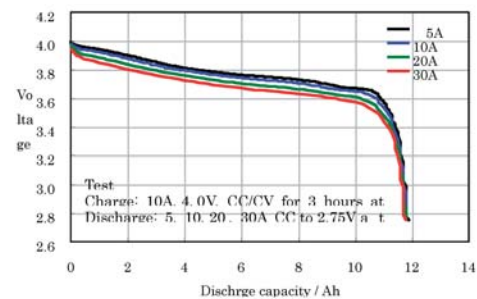


Cell Characteristics

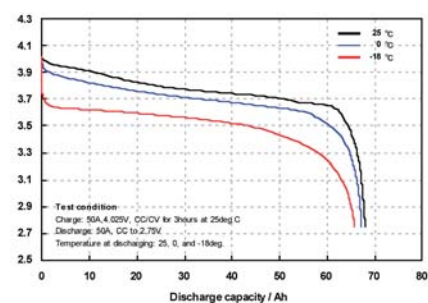
Discharge capacity at various temperature of LVP10



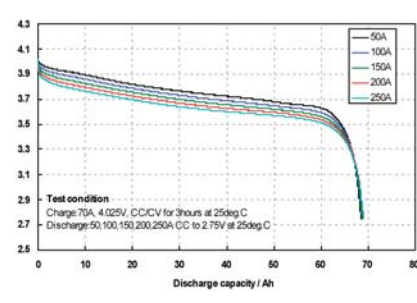
Discharge characteristics at various current of LVP10



Discharge capacity at various temperature of LVP65



Discharge performance at various current of LVP65



Safety and Handling information

To insure personnel safety and specified product performance, read and understand the LVP Instruction Manual before handling, testing, or installing the cells. Inappropriate handling or application of the cells can result in reduced cell life and performance, electrolyte leakage, high cell temperatures, and even the possibility of smoke generation and fire.

GS Yuasa strongly recommends that LVP cells be utilized with appropriate battery protection circuitry. Recommended protection circuitry requirements are available upon request. GS Yuasa can also provide battery systems, complete with cell balancing, monitoring and protection electronics for your specific application.

Cell design details and specifications are subject to change without notice.

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