

High Voltage Battery Systems



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Lithos' latest generation High Voltage System is a 2170 cylindrical-based pack that offers industry-leading performance and safety in a compact design—in standard modules enabling rapid deployment and customization for a wide range of applications that demand high energy and power. Lightweight, IP67 rated, liquid cooled with integrated BMS with CAN 2.0B communications, Lithos High Voltage System is state-of-the-art ideally suited for use in a broad spectrum of demanding environments.



Features

- Industry-Leading Safety & Quality
- High Power & Energy
- Built in USA
- Liquid Cooled
- Integrated BMS with CAN 2.0B Communication
- Onboard Pack Fuse and Contactors
- Onboard Pre-Charge Circuit & Isolation Monitoring
- High Shock and Vibration Capability
- >1000V Electrically Isolated HV System
- IP 67 Rated
- Passive Propagation Resistant
- Commercial Off The Shelf (COTS)

Customization

- Time for mass production of Custom Packs is as low as 8 months
- Configurable Size, Shape & Energy
- Maximized Performance & Unit Cost
- Tailored to Your Specific Application & Industry

Industries

- Automotive
- Off-Highway
- Agriculture, Construction, and Mining
- Marine
- Energy Storage Systems
- Defense

Final product specifications may vary. All information is subject to change without notice.

Model	High Power	High Energy
Availability	Coming 2024	Available Now
Part Number	LHV2-020FP-350	LHV2-020FE-350
Nominal Battery Voltage	350 V	354.4 V
Battery Voltage Range	240-403 V	240-403.2 V
Pack Energy	17.8 kWh	21.9 kWh
Continuous Discharge Power	93.5 kW / 250 A	53.1 kW / 150 A
Max Pulse Power, 10s	190 kW / 540 A	142 kW / 400 A
Charge Current	162 A	60 A
Charge Power	56.8 kW	21.3 kW
Mass (dry, est.)	130 kg	130 kg
Cooling System	Liquid Cooled	Liquid Cooled
Pack Sealing	IP67	IP67
Discharge Temperature Range	-40 to 60°C	-20 to 60°C
Charge Temperature Range	0 to 60°C	0 to 45°C
Storage Temperature Range	-40 to 60°C	-20 to 60°C
Volumetric Energy Density	202.3 Wh/L	248.9 Wh/L
Gravimetric Energy Density	~137 Wh/kg	~168Wh/kg



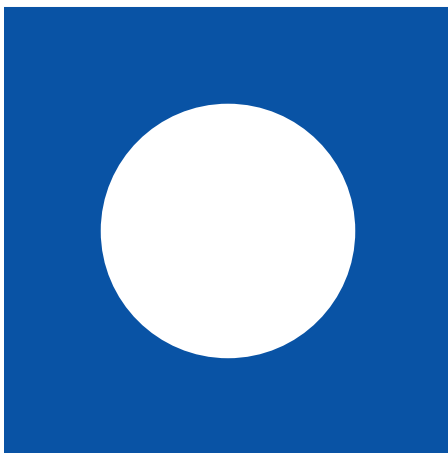
Battery Systems Engineered to Perfection. Designed and Manufactured in California.

Since 2015, Lithos has solidified its position as a world leading manufacturer of high-performance lithium-ion battery systems engineered for the most demanding environments. Founded by highly regarded alumni from MIT and Tesla, Lithos is proud of its unwavering commitment to engineering excellence. The company's world-class team is dedicated to pioneering battery innovation and providing top-notch customer service.

Our proprietary, customizable battery systems give clients the ability to take products to market faster at scale, providing the confidence and agility needed to lead electrification initiatives. Our innovative technology enables industry-leading power and energy density— with hallmark Lithos application-specific dependability and safety.

Industries served include automotive, e-mobility, marine, off-highway, energy storage, defense, construction, mining, and agriculture.

All Lithos battery systems are designed and manufactured at its state-of-the-art facility in Silicon Valley, California.



Do you want to discuss your next project, or learn more about our world-class battery technology? Our sales team is here to help.

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