



Military-Grade, High Power Lithium-ion Battery Packs

Engineered for the Most Extreme Environments.

The MIL-51-203A is built to withstand the harshest environments, making it your reliable companion for the toughest missions and commercial applications. Hybrid Design Services delivers performance and quality you can trust.



Military-Grade Durability, Built to Perform.



Rugged Construction Meeting Military Shock and Vibration Standards

Built tough, our battery pack meets military shock and vibration standards, ensuring unmatched durability and reliability in extreme conditions.



Highly Customizable

Tailored solutions to fit specific mission and commercial requirements, offering flexibility in design and functionality.



Advanced Engineering & Manufacturing



Series/Parallel Capability For High Energy/Power Output

Scalable configurations allow multiple batteries to work together, delivering enhanced energy and power capacities.



High Voltage Series Options Available

Choose from a range of high-voltage options to meet demanding energy needs for various applications.



Engineered & Assembled In The USA Since 2004.

+1.248.298.3400 • sales@hds.us



SCAN TO VISIT OUR WEBSITE

www.hds.us



Rugged Battery Packs for the Toughest Missions.

Unmatched Performance for Maximum Flexibility.

Need a battery that thrives under pressure? The MIL-51-203A is your go-to for tough conditions, offering reliable, high-performance power. With military-grade durability, it's built to last. Choose Hybrid Design Services for innovation you can trust. Contact us today to power up your toughest projects.



Specifications

Engineered & Assembled
In The USA Since 2004.



PERFORMANCE

- Energy: 51V 203Ah (10.25kWh)
- Voltage: 35V - 58V
- 400A (10.25kW) Continuous Discharge
- 400A Continuous Charge
- 800A (40kW) Peak Discharge ~ 20s
- Passive Thermal System with Active Air or Liquid Cooling Options Available (for Extended Life and Longer Peak Discharge)

SAFETY

- MIL STD 202G 213B Mechanical Shock
- MIL STD 810H 514.8 Random Vibration
- ISO 26262 ASIL-C Rated BMS
- UN38.3
- Advanced Thermal Runaway Detection
- Integrated High Voltage Interlock System (HVIL)
- Internal Junction Box with Dual Contactors
- Internal Fusing
- Dual Stage Venting
- Solid State Pre-charge

ENVIRONMENTAL

- IP67/69k Water and Dust Proof
- -40°C to +60°C Operation (without active thermal option)
- -45°C to +85°C Operation (with active thermal option)

OTHER

- High Power to Weight Ratio
- High Volumetric Efficiency
- Dimensions : (L) 29.3" [745 mm]
(W) 13.3" [338 mm]
(H) 7.4" [189 mm]
- Weight: 78 kg

Headquarters: Troy, MI | Manufacturing: Madison Heights, MI

For more Information: Contact sales@hds.us
or Call +1.248.298.3400



SCAN TO VISIT
OUR WEBSITE
www.hds.us