

Industry Benchmark Balance

- > 175 Wh/kg pack level
- > 5,000 cycles at 25°C
- > 1C fast charge

High Energy Pouch Cell over 235 Wh/kg

Proven High Voltage Base Technology

Introducing our MV-C Gen 4 battery pack

Multilayer Cell and Pack Software Safety Protocol

Meets Thermal and Safety Standards

- > UL 2580*
- > GB 38031
- > ECE R100.3
- > GTR 20

Commercial Truck, Off Highway, Severe Duty, Specialty Vehicle

Highlights:



Industry Leading Energy Density

Featuring an industry-leading energy density of >235 Wh/kg on the cell level and >175 Wh/kg pack level.



Long Cycle Life

Featuring a long cycle life (RT> 5,000 cycles, @45°C > 2,500 cycles), our packs are designed for lasting use.



Robust, Light-weight Design

Crafted with advanced manufacturing technologies for good balance between robustness, light weight and long life (IP68, IP6K9K).



Outstanding Safety

Our packs feature , our packs feature multi-level safety design to meet the strictest requirements, including GTR 20, GB 38031, and ECE R100.3 regulations.



Thermal Management

With liquid cooling our packs can operate in temperatures as low as -20°C, with 80% usable energy.



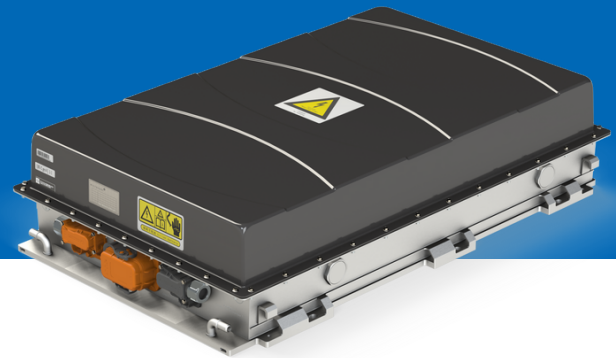
High Power Capability

Capable of handling high power demands, our packs support demanding applications such as fast charging and high-power tools. Suitable for new voltage level of CV (up to 800V DC).



A turn-key solution tailored for commercial vehicles

Microvast MV-C Gen 4 (53.5Ah) Battery Pack



Technical Specifications

Cell	HpCO-53.5Ah
Dimension (mm)	290 × 204 × 7.0
Voltage Range (V)	2.7~4.2
Nominal Voltage (V)	3.7
Nominal Capacity (Ah)	53.5
Weight (g)	850
Energy Density (Wh/kg)	≥235
Max. Continuous Charge Current	1C
Max. Continuous Discharge Current	2C
Peak Charge Current	3C @ 25°C, 50% SOC, 10s
Peak Discharge Current	4C @ 25°C, 50% SOC, 10s
Cycle life	≥5,000 cycles @25°C, 1CC/1CD, 2.7~4.2V, 80% SOH/EOL
Operating Temperature Range (°C)	-30 to 55 for discharge / -20 to 55 for charge

Pack	C-Pack Gen 4			
Cell Type	HpCO-53.5Ah			
Dimension (mm)	1060 x 660 x 243			
Configuration	108s2p	72s3p	54s4p	42s5p
Nominal Voltage (V)	399.6	266.4	199.8	155.4
Capacity (Ah)	107	160.5	214	267.5
Energy (kWh)	Max. 42.76			
Weight (kg)	242			
Energy Density (Wh/kg)	≥175			
Max. Continuous Current (A)	300			
Operating Temperature Range (°C)	-30 to 55			
IP Class	IP68 & IP6K9K			
Cooling Method	Liquid Cooling			

