



## CASE STUDY

### Custom Lithium-ion Battery Packs for XCMG Electric Articulated Boom Lift

With 65 feet height and 256kg/350kg load capacity

Learn How Frey's Lithium-ion Battery Benefits the Aerial Working Platform OEM Manufacturer

## THE CHALLENGE

XCMG is a global leading construction machinery manufacturer with 70 years of history. They were looking for a reliable OEM lithium-ion battery supplier for their high-power electric articulated boom lift XGA20AC. It requires high IP level design to deal with the frequent rain and high humidity in South China and extreme cold temperature in North China where the temperature can be as low as -22F.



## SOLUTION AND RESULT

Frey New Energy custom built the lithium-ion battery pack of 48V100Ah, it met all XCMG's requirements, and it exceeded their expectation about the benefits of lithium-ion battery. The production of the OEM batteries started on May 2019, until July 2021, it's been 26 months, each battery performs well without any issue. All the batteries are proudly serving in various environment.

Frey New Energy's lithium solution enhanced XCMG's leading position in their zero-emission goal in the construction machinery industry.

### Built to Last

Constructed with Frey's high-power output cell, it's extremely durable and long-lasting, with a cycle life of  $\geq 3,000$  times at 80% depth of discharge.

### High Capacity and Productivity

Frey battery-driven boom lifts running move efficiently, lifting higher and running longer than their regular lithium-ion battery driven counterpart

### Extremely Safe

Frey's custom lithium packs are explosion-proof, it can be used in any extreme environment

### Low-Temp Performance

Lifts can run efficiently in extremely low temperature due to Frey's patented Nanometer Technology