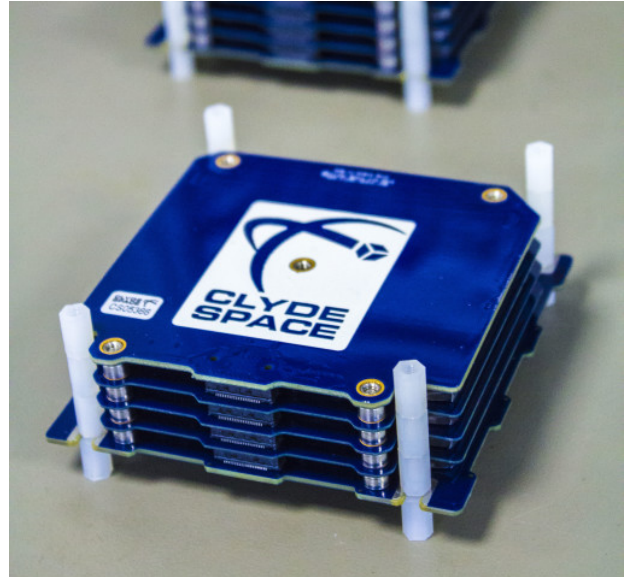




40Whr CubeSat Battery

The 3rd Generation Standalone Battery uses the latest version of our proven lithium polymer cells, building on our ten-year product heritage and reputation within the industry for power supply. They provide high energy densities alongside a robust protection architecture and a launch inhibits configuration over and above the manned flight requirements for Nanoracks launches as standard.



The integrated 40Wh Battery consists of two lithium polymer pouch cells in a 2s4p arrangement with a typical capacity of 5200mAh at a nominal 7.6V (full battery operational voltage range from 6.0 - 8.4V). To comply with manned flight launch requirements, the 40Whr battery features multiple high-side and low-side solid-state inhibits as well as voltage, current and temperature telemetries to monitor battery operation.

KEY FEATURES

- Our lithium polymer cells are qualified to NASA standards EP-Wi-032.
- They offer multiple battery protection features, including; Overcharge, Overdischarge, Overcurrent, Overvoltage and Undertemperature.
- Our extensive in-house qualification and characterization tests performed on all cell batches guarantees cell reliability.
- These have superior discharge characteristics versus conventional lithium ion technologies on the market.
- Compatible with ISS Manned Flight design requirements
- Compatible with Clyde Space 3G EPS range

PERFORMANCE METRICS

- Nominal capacity 5200mAh at 8.4V to 6.0V
- I2C Telemetry and Telecommand Interface (Address 0x2A)
- PC104 Form Factor