



Mozambique cubesat battery pack

What is a CubeSat battery?

The AAC Clyde Space OPTIMUS range of CubeSat batteries are amongst the most flown spacecraft battery in history. With thousands of units shipped to missions across the globe, and hundreds of units on orbit, our battery offers unrivalled on-orbit heritage.

Which CubeSat batteries are best?

Our OPTIMUS CubeSat batteries are amongst the most flown in history. Scalable to mission requirements, they also come with built in features such as thermostatically controlled heaters and sensors. The AAC Clyde Space OPTIMUS range of CubeSat batteries are amongst the most flown spacecraft battery in history.

What is a CubeSat power system?

An off-the-shelf Electrical Power System available in three standard configurations (Type A/B/C), for powering 1U - 3U Cubesats. The system leverages wide bandgap semiconductor technologies and is equipped with an integrated heater, hardware-based Maximum Power Point Tracking (MPPT) and hardware voltage and over-current protection.

Can I launch my CubeSat from a manned flight platform?

If you are intending to launch your CubeSat from a manned flight platform we can perform additional qualification and acceptance testing in order to meet the necessary safety conditions. The battery systems all have autonomous integrated heater systems to enhance operation at low temperatures.

What is a ba0x vs a 3U CubeSat?

For missions like 1U Cubesats, the BA0x enables your system to perform longer and better and pack even more power than a 3U configuration, the double-sided arrays are user-configurable to output 3.7V or 7.4V.

Why should you choose a CubeSat battery?

The combination of using strings of cells connected in parallel, with cell protection electronics, means that our CubeSat batteries are robust, resilient and offer inherent redundancy. In addition, the use of protected parallel strings allows us to easily and safely scale the battery to meet different mission requirements.

The 1.26 kg system has a total battery pack power of 350 Wh and a capacity of 42,000 mAh or 84,000 mAh depending on configuration. The batteries are customizable in terms of output, cable, connectors, and interfaces.

The TITAN-2 Battery pack family is a Small Satellite format power storage and delivery system designed to provide the highest energy capacity and redundancy. It integrates fast onboard redundant charging circuitry, automatic heating system and temperature sensor in a single unit from a minimum of 400 W/hr to 8000 W/hr.



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Small and powerful battery module for CubeSats Reduce your depth-of-discharge for a longer mission life. Our NanoPower BP4 integrates seamlessly with the NanoPower P31u to give your CubeSat more life. We designed the module so that it is stackable, meaning you can get that extra power needed for your mission.

Main Features:

The TITAN-1 350Whr High Energy Density Battery Matrix is a 1U-sized power bank module built from 7 battery arrays designed to provide the highest energy capacity and redundancy: Its ...

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The Everlight Lithium-ion 18650 Battery pack is a flight proven pack with a single battery capacity of 3.0Ah suitable for CubeSat. The space-grade, flight-tested Lithium-ion battery pack is designed to be energy efficient and offers a reliable ...

Battery module selection: Type 4 · Working voltage: 33-42V · Rated capacity: 30Ah · Cell: 21700-5Ah cylindrical battery · SP: 11S7P · Maximum discharge rate: 3C · Design lifespan: 10 years · Maximum connected modules: 4

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The TITAN-1 350Whr High Energy Density Battery Matrix is a 1U-sized power bank module built from 7 battery arrays designed to provide the highest energy capacity and redundancy: Its power capacity is 50 Whr



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per battery module, giving a total of 350 Whr. For missions from 3U Cubesats to microsattellites.

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