

# ULTRA-HIGH DENSITY BATTERY SYSTEMS

## Batteries for plane type drones

- ✓ World's highest energy density battery packs
- ✓ Increasing flight times up to 100%
- ✓ Designed and manufactured in the EU





# OUR BATTERY CELLS

## A solid foundation for your drone performance

We create customized battery packs tailored to your needs, using the best battery cells available, delivering up to 450 Wh/kg at the pack level.

Our cells are long-lasting, offering extensive cycle life even at high discharge rates.

Our battery pack concept enables volume production without requiring a complete redesign, ensuring reliable battery packs that meet the highest European standards while remaining cost-effective.

We have the capability to customize battery packs for seamless integration into your products.

## Pick your base model

At Tulip Tech, we understand that every fixed-wing drone has unique power needs. That's why we offer a range of high-density battery cells to serve as the foundation for your custom-built power solution. Our cells are optimized for performance, durability, and weight, ensuring that you get the perfect balance for your mission requirements.

In the table below, you'll find our available battery cell options, each designed to maximize flight time and payload capacity while minimizing weight. Choose your base from our selection and let us tailor the rest to your needs.

Capacity	2.5Ah	3.5Ah	3.85Ah	5Ah	11.0Ah	11.8Ah	14,3Ah	16Ah	17Ah	22Ah	28Ah	30Ah
Charged Voltage	4.25V	4.25V	4.3V	4.4V	4.2V	4.2V	4.2V	4.3V	4.6V	4.45V	4.2V	4.2V
Weight	33g	33g	52g	74g	104g	103g	145g	128g	127g	307g	307g	305g
Discharge (cont.)	10A 4C	10.5A 3C	11.5A 3C	20A 4C	55A 5C	11.8A 1C	70A 5C	16A 1C	16A 1C	66A 3C	74A 3C	90A 3C
Discharge (peak)	17.5A 7C	17.5A 5C	27A 7C	35A 7C	88A 8C	35A 3C	98A 7C	64A 4C	64A 4C	132A 6C	148A 6C	150A 5C
Energy density (in Wh/kg)	280	400	275	260	351	390	350	460	526	277	334	353
Dimensions L x D x W (in mm.)	61 x 38 x 7	109 x 62 x 3.2	71 x 38 x 9.5	108 x 36 x 8.5	144 x 54 x 6.5	139 x 54 x 6.7	151 x 43.5 x 9.7	130 x 50 x 7.6	130 x 50 x 7.6	174 x 74 x 10.8	174 x 72 x 11	198 x 98 x 7.5



# WHY TULIP TECH

## Trustworthy and Reliable

At Tulip Tech, we build battery packs you can trust in mission-critical situations. Designed for robustness and durability, our systems deliver consistent performance even in the harshest environments. With a focus on reliability and strength, our power solutions ensure your drones are always mission-ready, offering the confidence and dependability needed for military operations.

### High Energy Density

Tulip Tech designs and builds high-energy density battery systems, ranging from 300 Wh/kg to 500Wh/kg, specifically tailored for military-grade drones that require longer flight times and superior endurance.

Our battery systems are engineered with cutting-edge materials to minimize weight while ensuring maximum durability, even in the most extreme environments.

With a focus on both efficiency and robustness, our packs deliver optimal performance, making them ideal for extended missions without compromising on strength.



### Locally Produced in the Netherlands

At Tulip Tech, we are proud to manufacture our battery packs locally in Europe, with core production processes based in the Netherlands.

By keeping production close to home, we ensure faster lead times and scalable production, allowing us to meet the high-volume demands of drone manufacturers with precision.

Our local production not only guarantees compliance with strict European standards, but also helps reduce lead times and boost sustainability, providing our customers with rapid delivery and superior quality.



### Flexible and Modular BMS Design

Our drone battery systems are designed with flexibility and modularity in mind, with customized Battery Management Systems specifically designed for UAVs.

Whether you need custom sizes, capacities, or configurations, our modular system allows for quick adjustments, ensuring your drones are mission-ready at all times.

This approach ensures your power solutions scale as needed, delivering optimal performance and endurance for military applications without the need for a full system overhaul.







# DEVELOPING THE DRONE BATTERY OF THE FUTURE

Tulip stands for building reliable battery systems with high production standards, right here in Europe. Tulip has the capability to build up to 10,000 batteries per year per customized product, with every battery pack tested and documented, having traceability across it's supply chain.

## The company

Tulip, based in Eindhoven, specializes in top-tier battery packs and power electronics, prioritizing quality, safety, and lightweight design.

With cutting-edge production processes in Europe, we utilize next-gen battery cells, aerospace-grade materials and our advanced battery management systems for superior performance. We're driven by the belief that the future of electrification hinges on battery innovation.

Our mission is to pioneer vastly improved battery packs and electronics, unlocking new possibilities in products and services.

## Our values

Tulip was founded in 2020 with the goal to accelerate the electrification revolution by creating the world's best performing battery systems.

Tulip stands for building reliable battery systems with high production standards, right here in Europe. Tulip has the capability to build up to 10,000 batteries per year per customized product, with every battery pack tested and documented, having traceability across it's supply chain.

With it's modular technology, Tulip is creating customized products whilst achieving economies of scale for all customers.

## INTERESTED? GET IN TOUCH

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