

# Dual Smart Battery System

A system you can trust

## The necessity of a smart system

The battery system is the surveying drones' most common source of failure.

It also has a direct influence on the flight performance. To further increase the operational efficiency and reliability of Marlyn, Atmos' engineering team designed a dual smart battery system that results in redundancy, peace-of-mind, and durability.



## Benefits



### Redundancy

- Each battery acts as a failsafe to the other to maximize reliability ensuring safe operation without any disruptions.
- The two batteries are used in parallel to create one integrated power system.
- Marlyn's smart power board can recognize any unexpected inconsistencies and initiate its predefined safety routine to land automatically.



### Peace of Mind

- Battery Management System (BMS) for optimal flight performance.
- Both batteries are closely monitored in terms of remaining energy capacity, voltage, and temperature.
- Complying with airline carry-on luggage regulations making it easy to transport from one job to another



### Durability

- After 300 charges, you still have 80-90% capacity remaining.
- Ruggedized connectors and pulling straps to eliminate potential failure points in order to increase safety and ease of use.

## Details

Type of battery	Lithium-polymer battery	1 set (2 batteries) needed for flight
Battery capacity	4500 mAh (99.9 Wh)	9000 mAh per battery set
Weight	24 oz per battery	
Size (LxHxW)	8.7 x 2.2 x 2.2 in	
Charging Time	30 - 60 min	60 min per battery set, when completely discharged



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