

BATTERY DETAILS

QUADCOPTER FUNCTIONAL REQUIREMENTS

- Carry a Load of 500g and Below (1 Pint of Blood = 495g)
- Weigh 800g (frame = 454g, Components = 878g)
- Weight 1.83Kg (Drone & Payload = 1.83kg)
- Recharge Backup Battery Using Oscillatory Motion of Motors & Solar Frame panels.
- Autonomous
- 4 Hours of Flight Time
- Remotely Stream live feeds via Camera
- 360 Camera View Via Servo Motor
- Flight Height of 10ft
- Switch between Power Sources during Functional Flight Mode.
- Take Pictures and Video then send to the Cloud.

COMPONENTS

- Frame
- **Propeller**
- Motor
- Electric Speed Controller
- **Flight Controller**
- **Power (Battery)**
- Transmitter & Receiver
- Camera

BATTERY (Power)

- It is imperative that a higher rated battery should never be plugged into an incompatible component.
- To select the correct battery for a drone, the battery rating of electrical components must be considered.

MAIN BATTERY

LITHIUM ION POLYMER (Venom 20C 2S 4000mAh 7.4V Hard Case LiPo)

Specification

- Max Volts per Pack: 8.4V
- Min Volts per Pack: 6V
- Charge Rate: 1C (4A)
- Max Approved Charge Rate: 3C (12A)
- Wire Gauge: 12 AWG Soft and Flexible Low Resistance Silicone Wire
- Plug Type: Venom UNI Plug. Compatible with Traxxas Plug, Tamiya Plug, Deans Plug & EC3 Plug.
- Dimensions: 138 x 46 x 24 mm / 5.43 x 1.81 x 0.94 in
- Watt Hours: 29.6
- Weight: 8.4 oz (238.1 g)



BACKUP BATTERY

LITHIUM ION POLYMER (Venom 35C 2S 2000mAh 7.4V LiPo)

(Li-ion polymer) — offers the attributes of the Li-ion in ultra-slim geometry (Light Weight) .

Specification

- Battery Type: Lithium Polymer (LiPo Battery)
- C Rate: 35C
- Volts: 7.4
- Capacity: 2000mAh
- Cell Count: 2S
- Cell Configuration: 2S1P
- Continuous Discharge: 35C (70A)
- Max Burst Rate: 60C (120A)
- Max Volts per Cell: 4.2V
- Max Volts per Pack: 8.4V
- Min Volts per Pack: 6V
- Charge Rate: 1C (2A)
- Max Approved Charge Rate: 5C (10A)
- Wire Gauge: 14 AWG Soft and Flexible Low Resistance Silicone Wire
- Plug Type: Venom UNI Plug. Compatible with Traxxas Plug, Tamiya Plug, Deans Plug & EC3 Plug.
- Dimensions: 88 x 32 x 19 mm / 3.5 x 1.26 x 0.7 in
- Watt Hours: 14.8
- Weight: 3.6 oz (101 g)

