

# DeltaQuad Specifications

## Dimensions:

Wingspan	235 cm
Length	90 cm
Wing area	90 sq. dm.
Package dimensions	1180 x 490 x 400 mm
Payload bay (W)	200 x 120 x 80 mm

## Weight and Payload:

Empty weight	3.3 Kg
Empty weight including battery	4.9 Kg
Maximum takeoff weight	6 Kg
Payload capacity	1 Kg

## Flight Characteristics at no payload:

Cruise speed	18 m/s (65 Km/h)
Maximum speed	28 m/s (100 Km/h)
Stall speed	12 m/s (43 Km/h)
Maximum flight time*	2+ hours
Range through air*	120 km

## Flight Characteristics at max payload:

Cruise speed	16 m/s (60 Km/h)
Maximum speed	25 m/s (90 Km/h)
Stall speed	13 m/s (47 Km/h)
Maximum flight time*	1 hour 50 minutes
Range through air*	100 km

## Flight Characteristics with Auxiliary LiPo:

Payload capacity	200 g
Maximum flight time*	2 hour 45 minutes
Range through air*	150 km

## Power

Battery type	LiPo
Battery cells	4s
Battery capacity	23Ah

## **Tolerances**

Maximum wind at ground level**	7 m/s (25 Km/h)
Maximum wind at transition altitude**	9 m/s (33 Km/h)
Maximum wind at flight altitude **	11 m/s (40Km/h)
Maximum precipitation	Drizzle
Operating temperature	Between -20 and +40 Celsius
LiPo temperature	Between +5 and +45 Celsius
Maximum altitude	6500ft (2000m)

\* These values assume 85% battery usage, 0-wind conditions and include a low altitude vertical takeoff and landing

\*\* Requires both a front and back transition into the wind