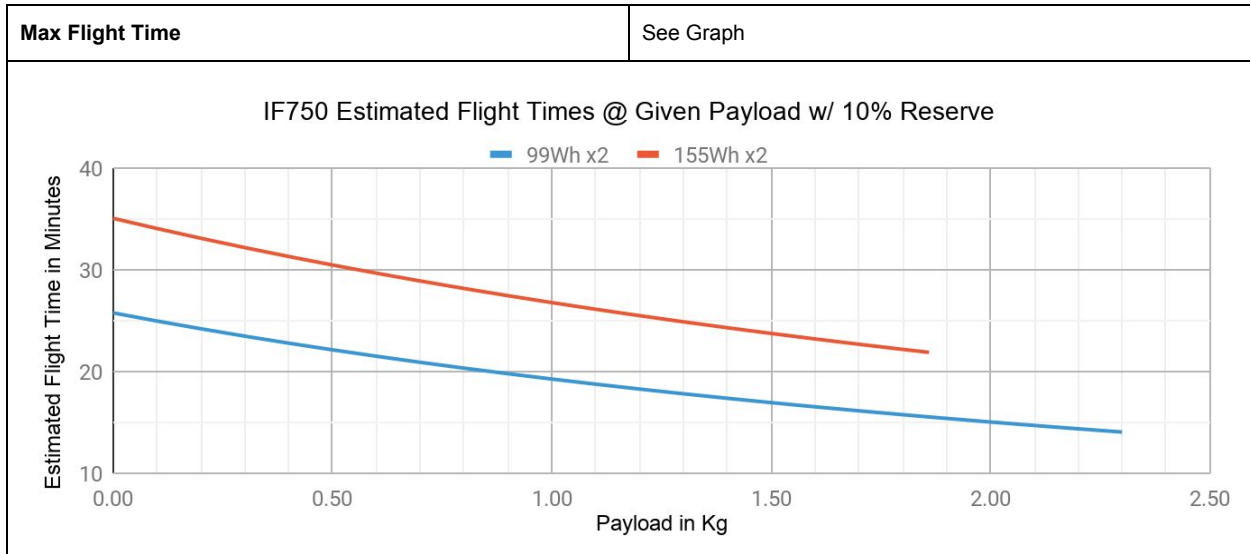


IF750 Base Spec Sheet



AIRCRAFT PERFORMANCE

Max Takeoff Weight	6.2 kg (13 lb 10 oz)
Aircraft Weight (excluding sensor)	4.5 kg (9 lb 14 oz)
Max Payload (sensor) Weight	2.2 kg (4 lb 13 oz)
Diagonal Size (propeller center to center)	750 mm (29.5 inches)
Dimensions (unfolded)	572 x 572 x 483 mm (22.5 x 22.5 x 19 inches)
Dimensions (folded)	368 x 413 x 305 mm (14.5 x 16.3 x 12 inches)
Operating Temperature Range	-10°C ~ 50°C (14°F ~ 122°F)
Storage Temperature Range	-10°C ~ 40°C (14°F ~ 104°F)
Max Ascent Speed	5 m/s (16 ft/s)
Max Descent Speed	3 m/s (10 ft/s)
Max Horizontal Ground Speed	15 m/s (33.5 mph)
Max Tilt Angle	35 deg
Max Angular Velocity (Yaw)	120 deg/s
Max Altitude	3,500 m (11,500 ft)
Max Wind Speed	9 m/s (20 mph) (17.5 knot)



FLIGHT HARDWARE

Flight Controller	FC	Pixhawk® 4
	Architecture	FMUv5
	Operating Software	PX4
	Barometer Accuracy	+/-1.5 mbar
Global Positioning	GPS	Ublox Neo-M8N GPS (Pixhawk 4 GPS)
	Positioning Accuracy	2.5 m Horizontal
Power Distribution Board	PDB	IF PDB4
	Motor Outputs	4x - 30A Continuous
	Auxiliary Power Channels	5v @ 5A, 14v @ 5A, battery voltage @ 60A
Propulsion	Motor	4x - IF Bernoulli 3
	Peak Motor Current	30A
	Propeller	17" x 5.8" (432 x 147 mm)
	Max Thrust per Motor	3.4 kg (7.5 lbs)
Navigation Light Color Options		Red, Green, Blue, Cyan, Magenta, Yellow, White
Navigation Light Patterns		OFF, ON, Single Blink, & Double Blink
Default Color Pattern (if preference not specified)		FL: Red-ON, FR: Green-ON, RL & RR: White-ON
Travel Case Outer Dimensions		676 x 525 x 378 mm (26.6 x 20.7 x 15 inches)
Travel Case Weight (including drone)		~15 kg (33 lbs)



REMOTE CONTROL

Remote Control Radio	FrSky Horus X10S
Radio Battery	7.4V 2600mAh Li-ion
Transmitter Module (TX)	Internal ISRM-S-X10
Transmission Power	100 mW, 500 mW, or 1 W
Operating Frequency	2.4 GHz
Aircraft Receiver (RX)	FrSky R-XSSR
Signal Range (line of sight)	Up to 3 km (1.4 miles)
Operating Temperature Range	-10~60°C (14-140°F)
Long Range Telemetry Module	RFD-900x-US
Signal Range	40 km (18mi)
Operating Frequency	902-928 MHz (NA/AUS), 868-869 MHz (Euro/Asia)
Operating Temperature Range	-40~85°C (-40-185°F)

Parachute Safety System

Manufacture	Fruity Chutes Inc.
Model Number	IF Harrier 55-66
Parachute Diameter	1.68 m (66 inches)
Weight (including rigging)	300 g (10.6 oz)
Triggered by	Flight Controller (automatic) or Operator (default is FC only)
Trigger Mechanism	Coil Spring Loaded Servo Trigger
Deployment Velocity	~6 m/s (~20 ft/s)
Typical Fall Distance until Parachute Fully Unfurled	15 m (50 ft)
Decent Velocity @ 6.2 kg	4.5 m/s (15 ft/s)
Certified Parachute Repacking Available	YES - Contact INSPIRED FLIGHT for more info



INSPIRED FLIGHT 99Wh BATTERY (Standard 2 per Aircraft)

Max Energy at Nominal Voltage		99.9 Wh
Nominal Voltage		22.2 V
Nominal Capacity		4500 mAh
Classification		Lithium Polymer 6S1P
Net Weight		640 g (22.6 oz)
Charging	Max Current	9.0 Amps (2C)
	Max Voltage	25.2 Volts
Discharge	Max Continuous Current	157.5 Amps (35C)
	Max Burst Current	315.0 Amps (70C)
	Voltage Cut-off	18.0 Volts (20.0v recommended)
Self - Discharge		<5% per month
Operating Temperature Range	Charge	0°C ~ 45°C (32°F ~ 113°F)
	Discharge	-20°C ~ 60°C (-4°F ~ 140°F)
	Storage	-20°C ~ 40°C (-4°F ~ 104°F)
IF750 Aircraft Battery Configurations	2 Battery - Max Payload Available	2.2 kg (4.85 lbs)
	4 Battery - Max Payload Available	1.4 kg (3.1 lbs)

OPTIONAL 155Wh BATTERY

Max Energy at Nominal Voltage		155.4 Wh
Nominal Capacity		7000 mAh
Net Weight		870 g (30.7 oz)
Charging	Max Current	7.0 Amps (1C)
	Max Voltage	25.2 Volts
Discharge	Max Continuous Current	175 Amps (25C)
	Max Burst Current	350 Amps (50C)
	Voltage Cut-off	18.0 Volts (20.0v recommended)
IF750 Aircraft Battery Configurations	2 Battery - Max Payload Available	2.0 kg (4.4 lbs)
	4 Battery - Max Payload Available	0.5 kg (1.1 lbs)