

# XL-2 SPECIFICATIONS AND PERFORMANCE FIGURES

DISCOVERY  
AVIATION

## WEIGHTS & LOADS

Max. Ramp Weight	1750 lbs/794 kg
Max. Takeoff Weight	1750 lbs/794 kg
Max. Landing Weight	1750 lbs/794 kg
Empty Weight	1165 lbs/529 kg
Useful Load	585 lbs/265 kg
Max. Wing Loading	15.63 lb/sq ft (76.3 kg/m <sup>2</sup> )
Max. Power Loading	14 lb/hp

## DESIGN WEIGHTS & CAPABILITIES

Fuel	AVGAS 100, 100 LL, RH-95/130
Fuel - Total Capacity	29.5 US Gal/111 L 28 US Gal/106 L
Baggage Allowance	100 lbs/45 kg

## POWERPLANT

Continental Motors IOF-240-B with FADEC, Four-Cylinder, Fuel Injected

Max. Continuous Power for each Engine	125 BHP at 2,800 RPM
Number of Cylinders	4 (Horizontally Opposed)
Bore	4.438"/11.27 cm
Stroke	3.875"/9.84 cm
Compression Ratio	8.5:1
Displacement	240 cu in/3,933 cc
Oil Sump Capacity	6 US Quarts/5.67 L
Height	24.0"/60.96 cm
Width	31.4"/79.76 cm
Length	29.1"/73.91 cm
Installed Dry Weight	328 lbs/148.8 kg

## AVIONICS

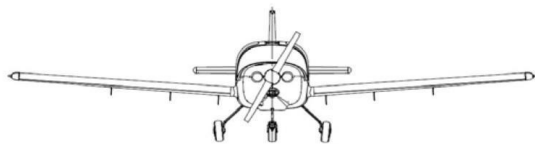
A STANDARD CONFIGURATION INCLUDES  
(IFR Certified to meet FAR 23 Amendment 53)

Garmin GMA 350 Audio panel  
Garmin GTN 650 Nav/Com  
Garmin GTX 33 Transponder  
Garmin GNC 255 Nav/Com  
Garmin GI 106A CDI/GS  
Garmin MD200-306 CDI/GS

## PROPELLER

2-Blade MT Propeller – Metal Leading

	with Wood and Composite core
Length	69" diameter/1.75 m
Tip Clearance	0.58 ft/0.175 m
Pitch	Fixed



## LANDING GEAR

Fixed Tricycle Spring Steel Nose Gear with Castoring Wheel Spring Aluminum Main Gear with Differential Brakes

## FUSELAGE

Cabin Width	48"/1.22 m
Cabin Height	34"/0.86 m
Cabin Length	91.9"/2.33 m (firewall to aft baggage area)
Baggage Weight Capacity	100 lbs/45.35 kg

## FLIGHT SURFACES

Wing Area	112.0 sq ft/10.41 m <sup>2</sup>
Span	28 ft/8.71 m
Dihedral	4.25°
Flap Type	Slotted
Horizontal	--

## PERFORMANCE

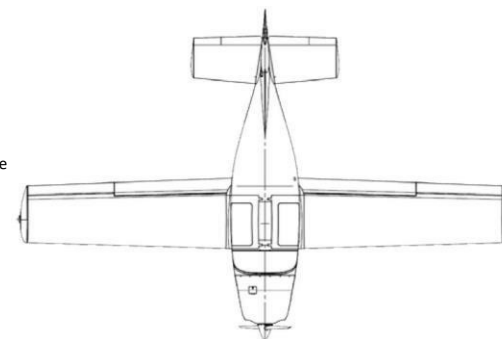
Stall Speed Vs1 (flaps up)	50 kts
Stall Speed Vso (flaps down)	44 kts
Rate of Climb (max. takeoff weight)	669 ft/min
Rate of Climb (10,000 ft)	194 ft/min (3.46 m/s)
Takeoff Ground Roll	1472 ft/449 m
Braked Roll (w/o Reverse)	--
Takeoff Distance over 50ft Obstacle	2564 ft/782 m
Landing Roll	708 ft/216 m
Landing Distance over 50ft Obstacle	1433 ft/437 m
Ceiling	12,500 ft/3810 m
Maximum Range Cruise Speed	120 kts/138 mph/222 km/h
Maximum Cruise Speed	125 kts/144 mph/232 km/h
Maximum Range	500 nmi/575 mi/926 km/w 45 min reserve

## WINDSPEED LIMITATIONS

Crosswind	15 kts
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## FEATURES

Low cost of ownership	Acquisition Operation Maintenance
Powerplant	Continental Motors IOF-240B engine with FADEC Computer analysis capability
Modular design	5.0 gph in the training environment Primary maintenance access panel Simplified routine maintenance Convenient shipment
Cockpit & Controls	Dual flight controls with toe brakes Elevator trim electromechanically operated Single lever power control
Control Panel	Electronic flaps and trim Electrically heated pitot & static system
Lighting	LED cabin lighting Emergency warning, caution lights & system operation lights
Power supply system	1 main RG25XC Concorde battery 1 backup battery
Safety equipment	ELT with remote activation Fire extinguisher
Large cabin space	48" wide with superior visibility 2 Pneumatically assisted gull-wing doors



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