

DEEPFLIGHT SUPER FALCON



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DEEPFLIGHT SUPER FALCON TECHNICAL SPECIFICATIONS

GENERAL SPECIFICATIONS

Occupants: 1 pilot, 1 passenger
Maximum Operating Depth: 100m (330ft)
Dimensions LxWxH: 5.9m x 2.7m x 1.6m
(19.3ft x 8.8ft x 5.2ft)
Weight: 1800 kg (3,968 lbs)
Maximum Cruising Speed: 5 knots
Endurance / Autonomy: up to 8 hours
Payload: 250 kg (551 lbs)
Type: Hydrobatic
Certification: Lloyd's Register

SAFETY

Buoyancy: Fixed positive buoyancy, auto return to the surface
Emergency Flotation: Emergency inflatable lift system
Egress: Internal or external egress
Stability: Dynamic self-righting
Depth Protection: Programmable depth protection system
Fault Detection Identification and Recovery System (FDIR): Record and monitor critical mission data such as depth, controls, life support, power, and overall system health, and provide audible and visual alarms

LIFE SUPPORT SYSTEMS

Oxygen System: 2 independent oxygen systems
Carbon Dioxide Removal: Replaceable soda lime cartridges
Emergency Life Support Duration: 72 hrs
Monitoring: 2 independent life support monitors

PROPULSION AND BATTERY

Propulsion Type: Electric, brushless DC direct-drive
Power Capacity: 10 kWh
Battery Type: Lithium Iron Phosphate (LiFePO4)

Battery Management: Voltage protection, auto-balancing
Charging: Dual 120-240 VAC chargers
Charge Time: 4 hours
Emergency Battery: 72 hours for critical systems

PRESSURE HULL AND INTERIOR

Hull Type: Proof tested high strength composite
Viewports: Polished cast-acrylic hemispherical viewports
Seating: Custom adjustable with integrated harness
Air Conditioning: Adjustable flow air-conditioning system

NAVIGATION AND COMMUNICATION

Communication System: Integrated underwater, surface, and internal communications with hand-held backup VHF
Tracking: USBL integrated tracking system with backup pinger locator beacon
Navigation: Magnetic compass, altimeter, depth gauge

SERVICES

Training: On-site piloting, integration, and maintenance training
Maintenance: Optional extended warranty and maintenance package
Troubleshooting: 24 / 7 service and support

AUXILIARY

Lighting: 4 external LED lights
Max Lumens: 7,000 - 9,300
Other: Rigid protective guards for acrylic domes, canvas cover, spare parts and tool kit, checklists and manuals

