**General characteristics**

* **Crew:** 4 (Pilot, Co-Pilot/COTAC, TACCO, Sensor Operator/TFO)
* **Length:** 53 ft 4 in (16.26 m)
* [**Wingspan**](https://en.wikipedia.org/wiki/Wingspan)**:**
  + **Unfolded:** 68 ft 8 in (20.93 m)
  + **Folded:** 29 ft 6 in (9.00 m)
* **Height:** 22 ft 9 in (6.93 m)
* **Wing area:** 598 ft² (55.56 m²)
* [**Empty weight**](https://en.wikipedia.org/wiki/Manufacturer%27s_empty_weight)**:** 26,581 lb (12,057 kg)
* **Loaded weight:** 38,192 lb (17,324 kg)
* [**Max. takeoff weight**](https://en.wikipedia.org/wiki/Maximum_takeoff_weight)**:** 52,539 lb (23,831 kg)
* [**Powerplant**](https://en.wikipedia.org/wiki/Aircraft_engine)**:** 2 × [General Electric TF34-GE-2](https://en.wikipedia.org/wiki/General_Electric_TF34) [turbofans](https://en.wikipedia.org/wiki/Turbofan), 9,275 [lbf](https://en.wikipedia.org/wiki/Pound-force) (41.26 kN) each
* \***Internal fuel capacity:** 1,933 US gal (7,320 L) of [JP-5](https://en.wikipedia.org/wiki/JP-5) fuel
* **External fuel capacity:** 2x 300 US gal (1,136 L) tanks

**Performance**

* [**Maximum speed**](https://en.wikipedia.org/wiki/V_speeds#Regulatory_V-speeds)**:**
  + 429 kn (493 mph, 795 km/h) at sea level
  + Mach 0.79, 450 kn (514 mph, 828 km/h) at 20,000 ft (6,100 m)
* [**Cruise speed**](https://en.wikipedia.org/wiki/V_speeds#Vc)**:** 350 kn (405 mph, 650 km/h)
* [**Stall speed**](https://en.wikipedia.org/wiki/Stall_(fluid_mechanics)#Stall_speed)**:** 97 kn (112 mph, 180 km/h)
* [**Range**](https://en.wikipedia.org/wiki/Range_(aeronautics))**:** 2,765 nm (3,182 mi, 5,121 km
* Combat Radius: 853 km [[31]](https://en.wikipedia.org/wiki/Lockheed_S-3_Viking#cite_note-31))
* [**Ferry range**](https://en.wikipedia.org/wiki/Range_(aeronautics))**:** 3,368 nm (3,875 mi, 6,237 km)
* [**Service ceiling**](https://en.wikipedia.org/wiki/Ceiling_(aeronautics))**:** 40,900 ft (12,465 m)
* [**Rate of climb**](https://en.wikipedia.org/wiki/Rate_of_climb)**:** 5,120 ft/min (26.0 m/s)
* [**Wing loading**](https://en.wikipedia.org/wiki/Wing_loading)**:** 68.5 lb/ft² (334 kg/m²)
* [**Thrust/weight**](https://en.wikipedia.org/wiki/Thrust-to-weight_ratio)**:** 0.353

**Armament**

* Up to 4,900 lb (2,220 kg) on four internal and two external hardpoints, including:
* 10 × 500 lb (227 kg) [Mark 82 bombs](https://en.wikipedia.org/wiki/Mark_82_bomb)
* 2 × 1000 lb (454 kg) [Mark 83 bombs](https://en.wikipedia.org/wiki/Mark_83_bomb)
* 2 × 2000 lb (908 kg) [Mark 84 bombs](https://en.wikipedia.org/wiki/Mark_84_bomb)
* 6 × [CBU-100](https://en.wikipedia.org/wiki/CBU-100) cluster bombs
* 2 × [Mark 50 torpedoes](https://en.wikipedia.org/wiki/Mark_50_torpedo)
* 4 × [Mark 46 torpedoes](https://en.wikipedia.org/wiki/Mark_46_torpedo)
* 6 × mines or depth charges
* 2 × [B57 nuclear bombs](https://en.wikipedia.org/wiki/B57_nuclear_bomb)
* 2 × [AGM-65](https://en.wikipedia.org/wiki/AGM-65)E/F Maverick missiles
* 2 × [AGM-84](https://en.wikipedia.org/wiki/AGM-84)D Harpoon missiles
* 1 × AGM-84H/K [SLAM-ER](https://en.wikipedia.org/wiki/SLAM-ER) missile
* 1 x ARS ( airborne refueling store/Buddy tank)

The two underwing hardpoints can also be fitted with unguided rocket pods or 300 US gal (1,136 l) fuel tanks.

**Avionics**

* AN/APS-116 sea search radar, maximum range 150 nmi (173 mi, 278 km)
  + Upgraded on S-3B to AN/APS-137 [Inverse Synthetic Aperture Radar (ISAR)](https://en.wikipedia.org/wiki/Inverse_synthetic_aperture_radar)
* OR-89 [forward looking infrared](https://en.wikipedia.org/wiki/Forward_looking_infrared) (FLIR) camera with 3x zoom
* AN/ARS-2 sonobuoy receiver with 13 blade antennas on the airframe for precise buoy location (Sonobuoy Reference System)
* AN/ASQ-81 [magnetic anomaly detector](https://en.wikipedia.org/wiki/Magnetic_anomaly_detector) (MAD)
* AN/ASN-92 [Inertial navigation system](https://en.wikipedia.org/wiki/Inertial_navigation_system) (INS) with [doppler radar](https://en.wikipedia.org/wiki/Doppler_radar) navigation and [TACAN](https://en.wikipedia.org/wiki/Tactical_air_navigation_system)
* Up to 60 sonobuoys (59 tactical, 1 Search and Rescue)