

Vehicle Technical Data Sheet

<http://www.aaav.usmc.mil/TechData/TECHDA.html>

GENERAL

- Weight
- Empty: 62,880 Pounds (Less Fuel, Ammo, Crew, Infantry)
- Combat Equipped: 74,500 Pounds (Full Fuel, Ammo, Crew, Infantry)

PERFORMANCE

- Horsepower (Sea) to Weight Ratio (Combat Equipped): 69.1 HP/Ton
- Horsepower (Land) to Weight Ratio (Combat Equipped): 22.8 HP/Ton
- Drawbar Pull (Maximum at Stall Tractive Effort)

- Cruising Range –
 - Land at 25 MPH: 300 Miles
 - Water at 20 knots: 65 Nautical Miles

- Cruising Speed –
 - Land: 20 to 30 MPH
 - Water: 20 Knots
 - Maximum Speed Forward - Land: 45 MPH
 - Water, High Speed: 25 Knots
 - Water, Transition Speed: 10.5 Knots
 - Maximum Speed Reverse - Land: 15 MPH
 - Water: 4.5 MPH

- Obstacle Ability: 8-Foot Trench Span, 3-Foot Vertical Wall
- Maximum Forward Grade (Combat Equipped): 60%
- Maximum Side Slope (Combat Equipped): 40%
- Ground Clearance (Combat Equipped): 16 inches
- Minimum Turning Radius
 - Land: Pivot
 - Water, Transition: Pivot
- Objective Surf Transit: Negotiate 8-Foot Plunging Surf Maintain Planing Speed in 3 Foot
- Significant Wave Height

ENGINE

- Make: MTU
- Model: MT883
- Type: 4 Cycle, 12 Cylinder, 90° Vee, Water Cooled, Turbocharged
- Fuel: Multi-fuel

Rated Horsepower –

- Land: 850 @ 2600 RPM
- Sea: 2575 @ 3300 RPM

Rated Torque –

- Land: 2626 ft-lbs @ 1700 RPM
- Sea: 4098 ft-lbs @ 3300 RPM

POWER TRAIN

Transmission: Allison Six Speed Transmission

Type: Hydrokinetic with Infinitely Variable Steering, HD World Transmission (WT), Packard

Electronic Controls

Equal Forward and Reverse Speeds

MARINE DRIVE TRAIN

Water Jet Pumps:

- Thrust: 22,794 Pounds Maximum (total)
- Quantity: 2
- Location: Port and Starboard, Aft
- Steering and Reverse by Jet Deflectors

RUNNING GEAR

- Type: Hydropneumatic Suspension, Front Sprocket, Raised Rear Idler
- Number of Wheels: 7 Rubber Tired, Dual per Side, 24 Inch Dia
- Track: Aluminum, Double Pin, Rubber Bushed, with Replaceable Pads

ELECTRICAL

- Nominal Voltage: 28VDC
- Generator: 1000 Amp, 28VDC

Battery:

- Volts: 24 V Battery Packs (2x12V in Series)
- Type: OPTIMA 800U
- Quantity: 2 Packs

COMMUNICATION VEHICLE SYSTEM

- Radio:
 - 3 VHF
 - 1 Multi-band (Incl. SATCOM)

- Intercom: Wireless headset

PROTECTION

- 14.5 mm AP at 300 Meters
- 155/152 mm Fragments at 15 Meters

FIRE EXTINGUISHERS

- Automatic Fire Sensing and Suppression System (AFSSS)
- Portable Fire Extinguishers:
 - Number: 2
 - Capacity: 2.5 lbs each

VISION AND SIGHTING REQUIREMENT

- Commander/Gunner: 360 Field of Vision
- Infantry Commander (IC): 120 Field of Vision
- Driver: 120 Field of Vision
- Combined IC and Driver: 270 Field of Vision

PERSONNEL COMPLEMENT

- Crew 3 (Commander, Gunner, Driver)
- Combat Equipped Marines: 17

ARMAMENT AND AMMUNITION

Main: Bushmaster II 30 mm Cannon

Main-AP:

- Objective Ready Rounds: 50
- Objective Stowed Rounds: 100

Main-HE:

- Objective Ready Rounds: 150
- Objective Stowed Rounds: 300

Traverse: 360° Continuous

Elevation: +45° , -10°

Secondary:

M240 Machine Gun, 7.62 mm Coax

- Objective Ready Rounds: 800
- Objective Stowed Rounds: 1600

Full Solution Fire Control

NAVIGATION EQUIPMENT

- Position Locating Reporting System (PLRS) AN/VSQ-1
- Global Positioning System (GPS)
- Compass

OTHER

Auxiliary Power Unit:

30 Horsepower Water Cooled Diesel:

10 KW Electric

3.5 GPM Hydraulic

NBC/Climate Control Overpressure

Micro-Climate/Macro-Climate Cooling

Smoke Grenade Launchers:

Hull:

- Turret: Forward Looking Infrared Radar (FLIR)
- Cargo Space Volume: 350 Cubic Feet