NW-44 MULTI-FUEL ENGINE

Where Precision and Reliability Soar!

• Heavy-Fuel/Gasoline
• Fuel Injection
• Less Drag = Increased Endurance
• Made in the USA

AVAILABLE NOW!

The Extra Features Built Into The NW-44 Multi-Fuel Engine, Will Have You Flying Faster and Quieter At Any Altitude.
NORTHWEST UAV: Turnkey Solutions for the UAS Industry

Northwest UAV is the World industry leader in UAS Propulsion System Manufacturing, providing quality, made in the USA products to clients around the globe. At NWUAV we understand UAS requirements inside and out, incorporating a total lifecycle approach that provides top quality, high-performance solutions to enhance any system platform. Our onsite Engineering Group is dedicated to our company mission of delivering reliable, cost effective UAS systems, and their experience is proven. When you need to get in the air and stay there, you need Northwest UAV. NWUAV is a AS9100 | ISO 9001 certified supplier.

NW-44 MULTI-FUEL

**GENERATOR CONTROL UNIT (GCU)**
- 280-Watts
- Outputs: 6V, 12V, 21V or 28V
- Trimmable to your application

**BATTERY BACKUP MODULE (BBM)**
- Full power system management
- Switches between generator shore power and battery
- Uninterrupted backup battery power

**FUEL DELIVERY SYSTEM (FDS)**
- Pressurized fuel for EFI, filtered with acrobatic pickup
- Regulated fuel pressure
- Pressure and Bingo level sensors

**ENGINE CONTROL UNIT (ECU)**
- Purpose built for UAVs
- Highly versatile baseline, customizable

**ECU WIRE HARNESS**
- Mil SPEC connectors
- EMI/EMC protected

All products meet or exceed AS9100/ISO9001 standards.
The NW-44 EFI is one of the most configurable small UAV engines on the market today. Purpose-built to handle aircraft from approximately 18 to 34 kg* (40-75 lbs.) depending on mission requirements. The NW-44 EFI core and sub-system components mitigate ITAR and end of life concerns and are primed to meet pending FAA Certification requirements.

*Engine application is dependent on airframe factors including: Aerodynamics, propeller, and operational concept. Please contact NWUAV for guidance.
NWUAV purpose-built NW-44 EFI multi-fuel (heavy-fuel/gas) engine is designed, developed and built for unmanned aircraft systems, low altitude, long endurance aircraft and portable power generation.

The NW-44 EFI is one of the most configurable small UAV engines on the market today. Purpose-built to handle aircraft from 18 to 34 kg* (40 to 75 lbs) depending on mission requirements.

Designed from the ground up for unmanned applications, the NW-44 is scalable for use in various classes of aircraft with multiple fuel types and incorporates features not available with hobby based engine designs.

Advanced materials incorporate characteristics needed for lighter weight and better performing engines when utilizing heavy-fuels. The specialized Fuel Injection System allows the NW-44 to dramatically enhance engine system reliability, maintainability, and performance while reducing weight.

The NW-44 core and subsystem components alleviate ITAR and end of life concerns and are primed to meet pending STANAG 4671 and FAA Certification requirements.

### SPECIFICATIONS

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<thead>
<tr>
<th>NW-44 EFI</th>
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<tbody>
<tr>
<td><strong>Total Weight</strong> (see below)</td>
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<td><strong>Displacement</strong></td>
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<td><strong>Bore</strong></td>
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<td><strong>Stroke</strong></td>
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<td><strong>Maximum Continuous Speed</strong></td>
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<td><strong>Power Rating at 7250 RPM</strong></td>
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<td><strong>BSFC at Cruise 5000 RPM at Sea Level</strong></td>
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<td><strong>Ignition</strong></td>
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<td><strong>Cooling</strong></td>
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<td><strong>Generator Regulator</strong></td>
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<td><strong>Generator</strong></td>
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<td><strong>Fuel System</strong></td>
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<td><strong>Fuel Type</strong></td>
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<td><strong>Fuel to Oil Mixture</strong></td>
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<td><strong>Preferred Oil Type</strong></td>
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<td><strong>ECU Data Storage</strong></td>
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<td><strong>TBO (Estimate)</strong></td>
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### ADDITIONAL FEATURES

- Custom 280-Watt direct drive generator with a 6/12/21 or 28 volt Generator Control Unit (GCU); ~280-Watts available, 30-Watts for engine, 250-Watt for payload and aircraft.
- Multiple generator output configurations available to fit customer horsepower, electrical output and overall weight requirements
- Conformal aerodynamic tuned muffler, lightweight and quiet
- Interfaces with popular autopilots
- Includes: Fuel injection, barometric pressure, cylinder head and intake air temperature sensors, and heavy-fuel cold start provisions
- Conformal design mitigates unwanted parasitic drag, which increases net fuel-efficiency
- MANUFACTURED IN THE USA

NOTE: Actual performance will vary depending on PMU configuration, application, propeller, fuel, oil, environmental conditions and type of operation.

* Total weight with propeller, cowling and interface harness.

Engine application is dependent on airframe factors including: Aerodynamics, propeller, and operational concept. Please contact NWUAV for guidance.