The PSI 8.1-liter Turbo is a U.S. EPA-certified natural gas and propane engine developed from the block up to be a reliable and durable power unit. Built upon a proven marine-diesel grade block, the 6-cylinder inline configuration, turbocharged and after-cooled engine features replaceable dry liners and water-cooled exhaust.

Superior engine performance is driven by an ECU that integrates and coordinates all critical functions including: Governor, Variable Ignition Timing, Air Fuel Ratio Control, Knock Suppression and Engine Protection.

The PSI Energy product lineup has displacements from 0.97L to 65L. These engines are an extension of the PSI product line, which is based upon blocks from 650cc to 8.8L. All PSI engines feature the same fuel systems and controls, simplifying your application development and support.

**GENERAL DATA**

- Water-cooled, turbo-charged, air-to-air inter-cooled, stoichiometric with replaceable dry cylinder liners
- 50°C Ambient Cooling Capacity
- Cast iron block & heads, 10.5:1 compression ratio, overhead valve/2V configuration
- Crankshaft gear-driven oil system with cartridge-type filter, belt-driven centrifugal water pump
- 24VDC Starter and Brushless Alternator
- CANBUS J1939 Interface
- 3-Way Catalytic Converter
- UL-recognized air filtration
- Integrated knock sensing and control
- Full ECU engine control with coil-on-plug variable timing ignition

**FEATURES**

- U.S. EPA-Certified and CARB-Compliant, Stationary & Mobile
- MasterTrak Telematics service (included for 1 year)
- Enhancements for prime & continuous power
- UL2200-Compliant or Listed Components
- Dual Fuel Auto Switch-Over
- Advanced diagnostics for improved up-time

**PSI 8.1 LITER ENGINE DATA**

- **Model Number**: 8.1L
- **Cylinders**: 1-6 (In-line)
- **Induction System**: Turbocharged & air-to-air charge cooled
- **Combustion System**: Spark-ignited
- **Cooling System**: Water-cooled
- **Displacement**: 8.1L
- **Compression Ratio**: 10.5:1
- **Bore & Stroke**: 111 mm x 139 mm
- **Fuel Type**: Natural Gas / Propane
- **Direction of Rotation**: Anti-clockwise viewed on flywheel
- **Dry Weight**: 998 kg

**POWER RATINGS**

<table>
<thead>
<tr>
<th>Speed RPM</th>
<th>Natural Gas</th>
<th>LPG</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ESP kWm</td>
<td>PRP kWe</td>
</tr>
<tr>
<td>8.1LT</td>
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</tr>
<tr>
<td>1500</td>
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<td>128</td>
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<tr>
<td>1800</td>
<td>176</td>
<td>155</td>
</tr>
</tbody>
</table>

kWe values are based on standard assumptions for mechanical and electrical losses. Ratings and performance is subject to site conditions and PSI application and ratings guidelines.