The PSI 40-liter 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 12-cylinder V-Configuration, turbocharged and after-cooled engine features replaceable wet 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**

- Turbo-charged and after cooled, cast iron with wet cylinder liners v-block
- Cast iron cylinder block with inspection door per cylinder
- Modular 4 valve cast iron cylinder heads
- Weichai supplied engine block
- High strength alloy steel forged crankshaft
- Thermostatically-controlled cooling system with engine integrated oil cooler
- Gear driven dual water pump and engine mounted fan
- J1939 CANBUS interface
- 3-Way Catalyst
- High efficiency air filter
- SAE #0 flywheel housing, SAE #18 flywheel
- Proven US ECU, fuel system and engine control

**FEATURES**

- U.S. EPA-Certified
- Oil cooled light alloy pistons with high performance piston rings
- Hardened valves and valve seats
- Valley mounted water cooled exhaust manifold
- Telematics compatibility
- Full flow oil filter

**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>40L</td>
<td>740</td>
<td>651</td>
</tr>
<tr>
<td>1800</td>
<td>920</td>
<td>810</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.

**PSI 40 LITER ENGINE DATA**

- Model Number: 40L
- Cylinders: 90˚, V-12
- Induction System: Turbocharged & air-to-air charge-cooled
- Combustion System: Spark-ignited
- Cooling System: Water-cooled
- Displacement: 40L
- Compression Ratio: 10.5:1
- Bore & Stroke: 150 mm x 185 mm
- Fuel Type: Natural Gas / Propane
- Direction of Rotation: Counter-clockwise viewed on flywheel
- Dry Weight: 3,390 kg

*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.*