



**POWER SOLUTIONS
INTERNATIONAL**

40L NATURAL GAS/PROPANE ENGINE

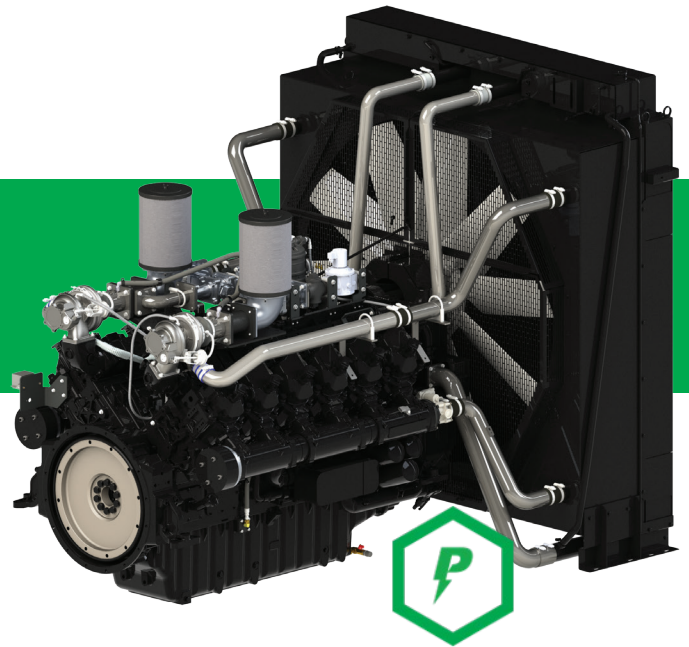
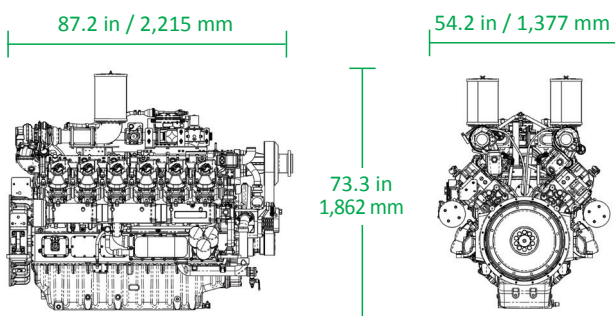
The PSI 40-liter is a U.S. EPA-certified natural gas and propane engine developed from the block up to be a reliable and durable power unit. Built upon a proven marine-diesel grade block, the 12-cylinder V-Configuration, turbocharged and after-cooled engine features replaceable wet liners and water-cooled 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
- 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 ECU, fuel system and engine control



FEATURES

PSI POWER SYSTEMS

- 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

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	2,394 cid (39,230 cc)
Compression Ratio	10.5:1
Bore & Stroke	5.91 in x 7.28 in (150 mm x 185 mm)
Fuel Type	Natural Gas / Propane
Direction of Rotation	Counter-clockwise viewed on flywheel
Dry Weight	7,474 lb (3,390 kg)

POWER RATINGS

		50 Hz (1500 RPM)		60 Hz (1800 RPM)	
STANDBY	NG	650 kWe	740 kWm	800 kWe	920 kWm
LTP	NG	650 kWe	740 kWm	800 kWe	920 kWm
PRIME	NG	585 kWe	666 kWm	725 kWe	828 kWm
STANDBY	LP	430 kWe	487 kWm	500 kWe	584 kWm
LTP	LP	430 kWe	487 kWm	500 kWe	584 kWm
PRIME	LP	385 kWe	438 kWm	450 kWe	526 kWm

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.

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