



**POWER SOLUTIONS  
INTERNATIONAL**

# 53L NATURAL GAS/PROPANE ENGINE

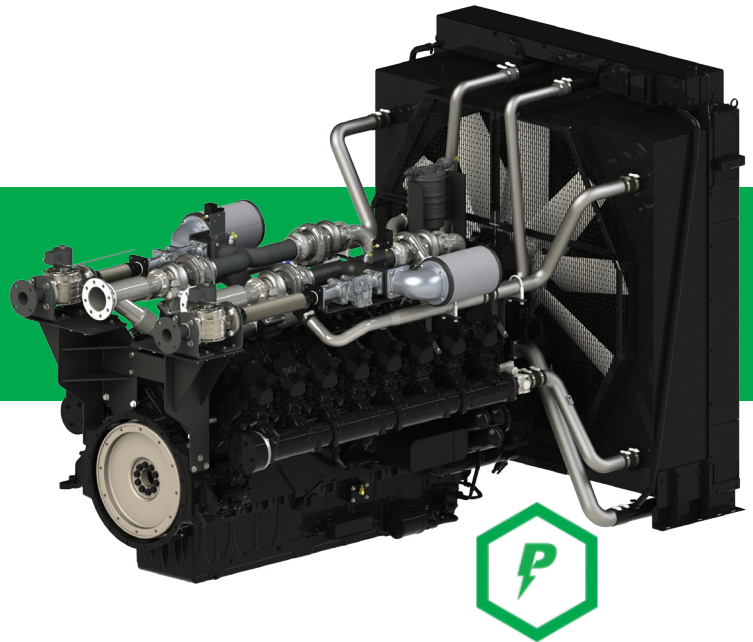
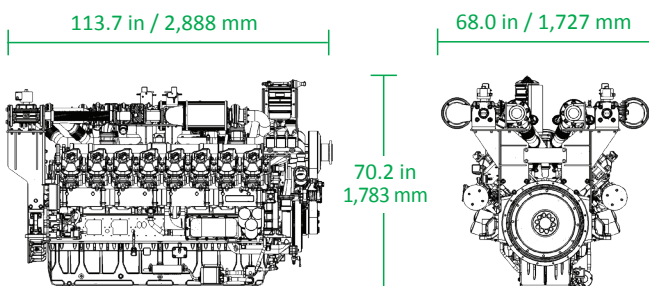
The PSI 53-liter is a U.S. EPA-certified natural gas and propane engine developed from the block up to be a reliable and durable power unit. Built upon a proven marine-diesel grade block, the 16-cylinder V-Configuration, turbocharged and after-cooled engine features replaceable wet liners and water-cooled 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



**PSI** POWER SYSTEMS

## 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

## PSI 53-LITER ENGINE DATA

Model Number	53L
Cylinders	90°, V-16
Induction System	Turbocharged & air-to-air charge-cooled
Combustion System	Spark-ignited
Cooling System	Water-cooled
Displacement	3,192 cid (52,308 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	12,125 lb (5,500 kg)

## POWER RATINGS

		50 Hz (1500 RPM)		60 Hz (1800 RPM)	
STANDBY	NG	850 kWe	987 kWm	1050 kWe	1185 kWm
LTP	NG	850 kWe	987 kWm	1050 kWe	1185 kWm
PRIME	NG	775 kWe	888 kWm	925 kWe	1067 kWm
STANDBY	LP	650 kWe	744 kWm	775 kWe	892 kWm
LTP	LP	650 kWe	744 kWm	775 kWe	892 kWm
PRIME	LP	575 kWe	670 kWm	700 kWe	803 kWm
STANDBY HO	NG	—	—	1250 kWe	1436 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.

**Power Solutions International** 201 Mittel Drive, Wood Dale, IL 60191  
T: 630-350-9400 • F: 630-350-9588 • [www.psiengines.com](http://www.psiengines.com)