

# 8.1L NATURAL GAS/PROPANE ENGINE

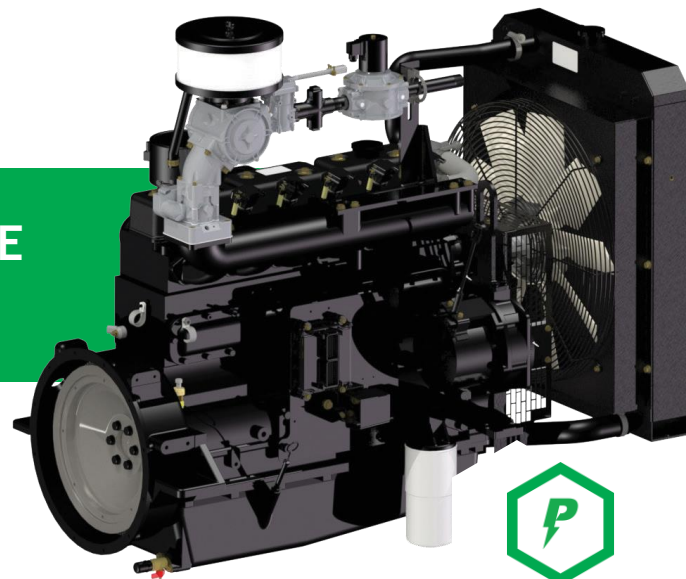
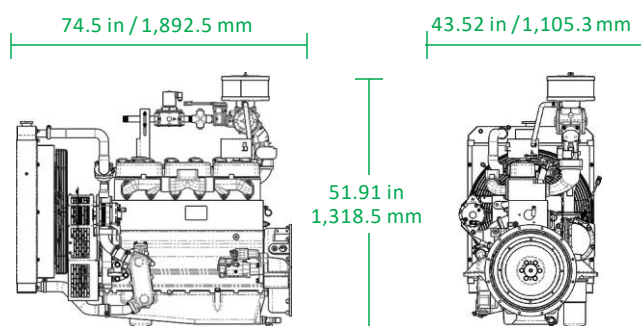
The PSI 8.1-liter engine is a U.S. EPA-certified natural gas and propane power unit developed from the block up to be reliable and durable. Built upon a proven marine-diesel grade block, the 6-cylinder inline engine features replaceable dry liners.

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 Power Systems 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, with replaceable dry cylinder liners
- 50C 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



**PSI** POWER SYSTEMS

## FEATURES

- U.S. EPA-Certified, Stationary & Mobile
- 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	I-6 (in-line)
Induction System	Naturally aspirated
Combustion System	Spark-ignited
Cooling System	Water-cooled
Displacement	492 cid (8,064 cc)
Compression Ratio	10.5:1
Bore & Stroke	4.37 in x 5.47 in (111 mm x 139 mm)
Fuel Type	Natural Gas / Propane
Direction of Rotation	Anti-clockwise viewed on flywheel
Dry Weight	2,200 lb (998 kg)

## POWER RATINGS

		50 Hz (1500 RPM)		60 Hz (1800 RPM)	
STANDBY	NG	60 kWe	74 kWm	85 kWe	100 kWm
	LPG	65 kWe	74 kWm	80 kWe	100 kWm
PRIME	NG	55 kWe	67 kWm	75 kWe	88 kWm
	LPG	55 kWe	67 kWm	75 kWe	88 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.