

8.1LT

NATURAL GAS/PROPANE ENGINE

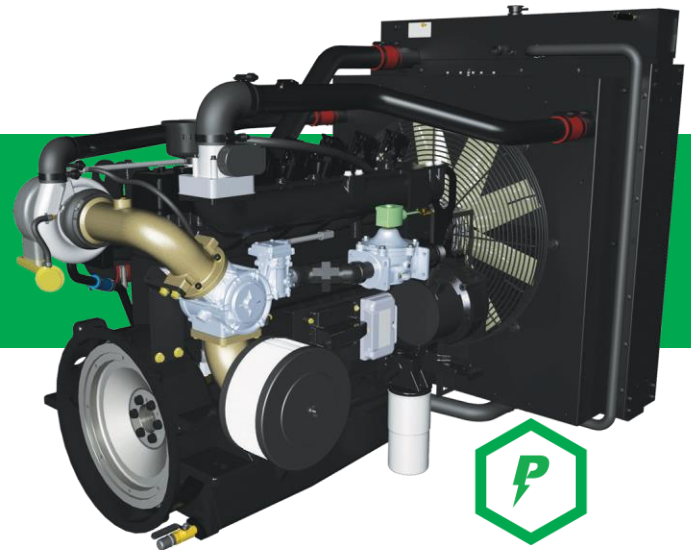
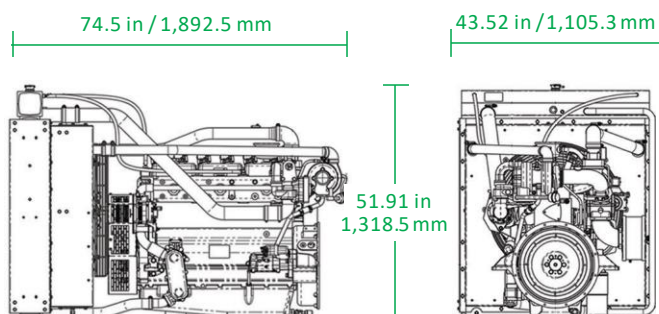
The PSI 8.1-liter Turbo is a U.S. EPA-certified natural gas and propane engine developed from the block up to be a reliable and durable power unit. Built upon a proven marine-diesel grade block, the 6-cylinder inline configuration, turbocharged and after-cooled engine features replaceable dry liners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

Model Number	8.1L
Cylinders	I-6 (in-line)
Induction System	Turbocharged & air-to-air charge cooled
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	125 kWe	145 kWm	155 kWe	176 kWm
	LPG	90 kWe	102 kWm	110 kWe	130 kWm
PRIME	NG	110 kWe	131 kWm	125 kWe	150 kWm
	LPG	80 kWe	92 kWm	95 kWe	111 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.