

8.1 LT INDUSTRIAL STATIONARY

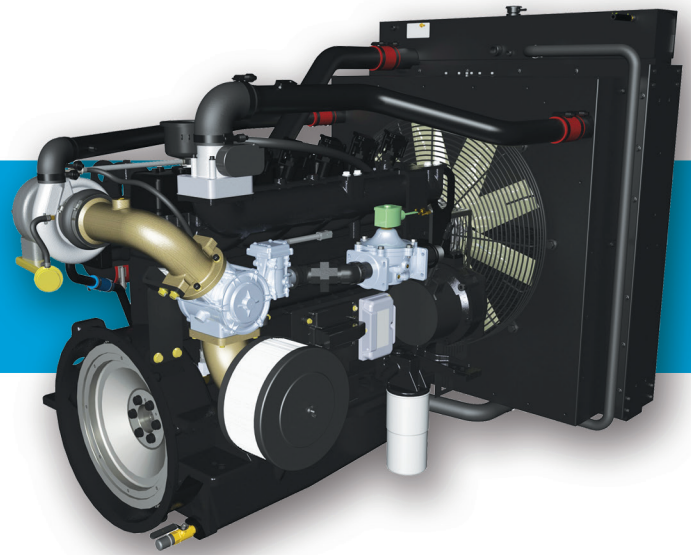
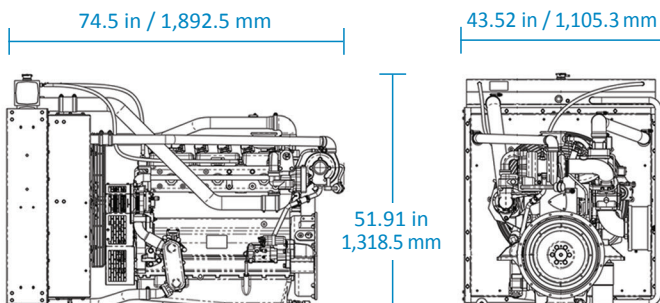
The PSI HD 8.1L Turbo is a U.S. EPA-certified natural gas and propane engine developed from the block up to be a reliable and durable power unit. Built upon a proven marine-diesel grade block, the 6-cylinder inline configuration, turbocharged and after-cooled engine features replaceable dry liners and 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 HD product lineup has seven models with displacements of 8.1L, 11.1L, 14.6L, 18.3L, 21.9L and 29.2L. 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
- 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 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



FEATURES

- U.S. EPA-Certified and CARB-Compliant, Stationary & Mobile
- 50C Ambient Cooling Capacity
- UL2200-Compliant or Listed Components
- MasterTrak Telematics service (included for 1 year)

GENERATION 2 ENHANCEMENTS

- Enhancements for prime & continuous power
- Dual Fuel Auto Switch-Over
- Brushless Alternator
- Advanced diagnostics for improved up-time

PSI 8.1-LITER TURBO ENGINE DATA

Model Number	D081L
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)

kWe

		1500 RPM	1800 RPM
Standby*	NG	128 kWe	155 kWe
	LPG	90 kWe	114 kWe
Prime*	NG	115 kWe	132 kWe
	LPG	81 kWe	98 kWe

*Assumes 10% losses for fans and genset. Ratings subject to PSI application and duty cycle guidelines.