

# 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 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

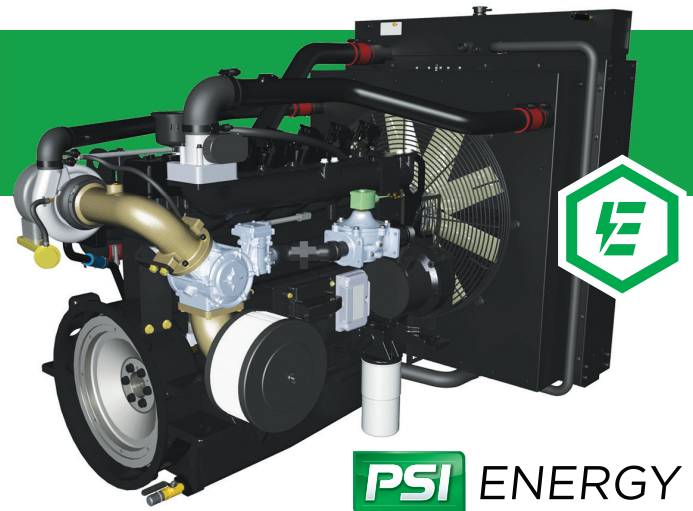
- Water-cooled, turbo-charged, air-to-air inter-cooled, stoichiometric with replaceable dry cylinder liners
- 50C Ambient Cooling Capacity
- Cast iron block & heads, 10.5:1 compression ratio, overhead valve/2V configuration
- Crankshaft gear-driven oil system with cartridge-type filter, belt-driven centrifugal 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

## POWER RATINGS

GAS ENGINE	NG							RPM
	Gross Engine Output			Typical Generator output				
	ESP	PRP	COP	ESP	ESP	PRP	PRP	
	kWm	kWm	kWm	kWe	kVA	kWe	kVA	
8.1LT	145	131	92	130	162	117	146	1500
	176	150	105	156	195	132	165	1800

GAS ENGINE	LPG							RPM
	Gross Engine Output			Typical Generator output				
	ESP	PRP	COP	ESP	ESP	PRP	PRP	
	kWm	kWm	kWm	kWe	kVA	kWe	kVA	
8.1LT	102	92	64	90	113	81	102	1500
	130	111	78	113	142	96	120	1800

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.



**PSI ENERGY**

## FEATURES

- U.S. EPA-Certified and CARB-Compliant, Stationary & Mobile
- MasterTrak Telematics service (included for 1 year)
- Enhancements for prime & continuous power
- UL2200-Compliant or Listed Components
- Dual Fuel Auto Switch-Over
- Advanced diagnostics for improved up-time

## PSI 8.1LT ENGINE DATA

Model Number	8.1LT
Cylinders	1-6 (In-line)
Induction System	Turbocharged & air-to-air charge cooled
Combustion System	Spark-ignited
Cooling System	Water-cooled
Displacement	8.1L
Compression Ratio	10.5:1
Bore & Stroke	111 mm x 139 mm
Fuel Type	Natural Gas / Propane
Direction of Rotation	Anti-clockwise viewed on flywheel
Dry Weight	998 kg

