

# 13LT NATURAL GAS/PROPANE ENGINE

The PSI 13-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 6-cylinder, 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 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

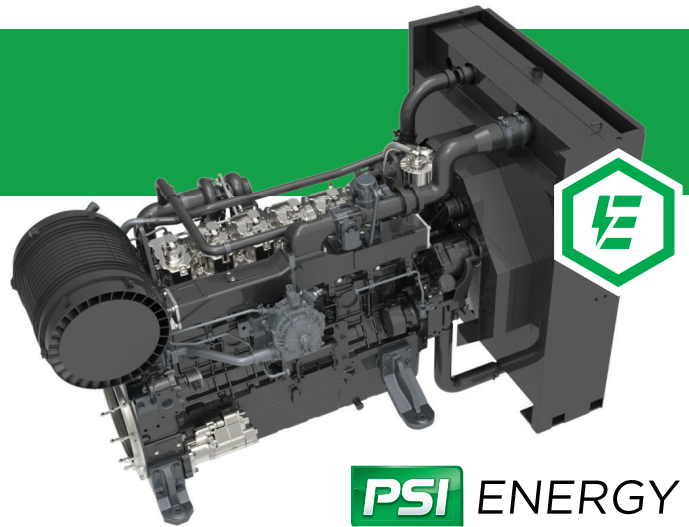
- Turbo-charged and after cooled, cast iron with dry cylinder liners
- Cast iron cylinder block with inspection door per cylinder
- Weichai supplied engine block
- High strength alloy steel forged crankshaft
- Forged Connecting Rod Aluminum Alloy Pistons with Gallery Oil Cooling
- Thermostatically-controlled cooling system with engine integrated oil cooler
- J1939 CANBUS interface
- 3-Way Catalyst
- High efficiency air filter
- Variety of Flywheels (11.5", 14"), Ring Gears and Housing
- Proven US ECU, fuel system and engine control
- High Capacity, Gear Driven Oil Pump
- Cartridge-Type Filters

## 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	
13LT	250	234	164	223	279	209	261	1500
	300	245	172	263	328	211	264	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	
13LT	151	151	106	130	162	130	162	1500
	180	180	126	149	187	149	187	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
- Oil cooled light alloy pistons with high performance piston rings
- Hardened valves and valve seats
- Valley mounted water cooled exhaust manifold
- Telematics compatibility

## PSI 13LT ENGINE DATA

Model Number	13LT
Cylinders	1-6
Induction System	Turbocharged & air-cooled
Combustion System	Spark-ignited
Cooling System	Water-cooled
Displacement	13L
Compression Ratio	9.75:1
Bore & Stroke	126 mm x 165 mm
Fuel Type	Natural Gas / Propane
Direction of Rotation	Counter-clockwise viewed on flywheel
Dry Weight	1,060 kg

