

22L

NATURAL GAS/ PROPANE ENGINE

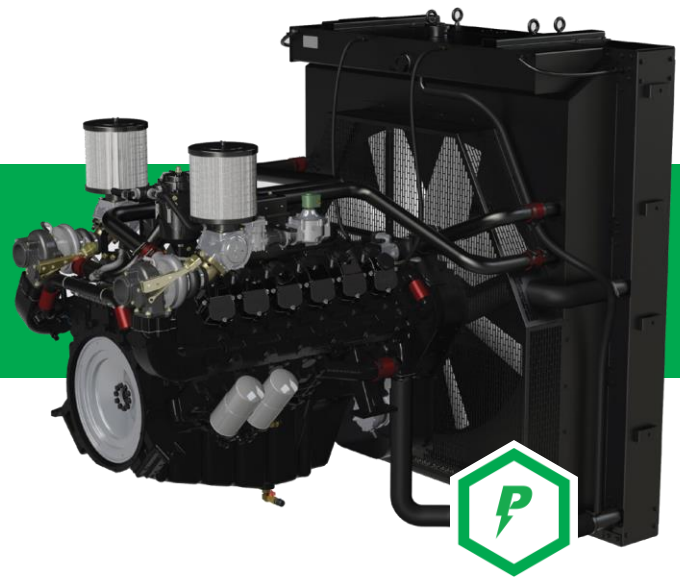
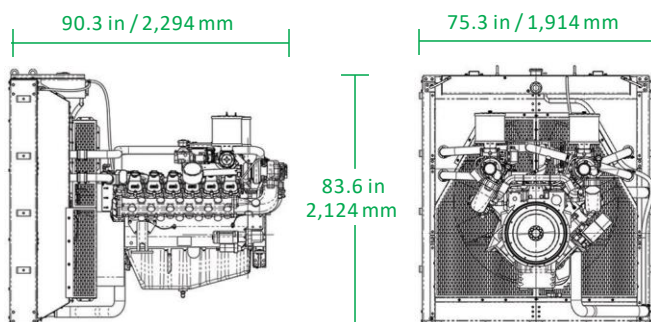
The PSI 21.9-liter is a U.S. EPA-certified natural gas and propane engine developed from the block up to be a reliable and durable power unit. Built upon a proven marine-diesel grade block, the 12-cylinder V-Configuration, turbocharged and after-cooled engine features replaceable wet liners and water-cooled 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

- Water-cooled, turbo-charged, air-to-air inter-cooled, stoichiometric with replaceable wet 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
- Serpentine, Self-Tensioning Fan Belt
- 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 22-LITER ENGINE DATA

Model Number	21.9L
Cylinders	90°, V-12
Induction System	Turbocharged & air-to-air charge-cooled
Combustion System	Spark-ignited
Cooling System	Water-cooled
Displacement	1,338 cid (21,925 cc)
Compression Ratio	10.5:1
Bore & Stroke	5.04 in x 5.59 in (128 mm x 142 mm)
Fuel Type	Natural Gas / Propane
Direction of Rotation	Anti-clockwise viewed on flywheel
Dry Weight	3,638 lb (1,650 kg)

POWER RATINGS

		50 Hz (1500 RPM)		60 Hz (1800 RPM)	
STANDBY	NG	350 kWe	397 kWm	450 kWe	510 kWm
	NG (HIGH OUTPUT)	—	—	500 kWe	570 kWm
	LPG	240 kWe	276 kWm	300 kWe	352 kWm
LTP	NG	300 kWe	340 kWm	375 kWe	434 kWm
PRIME	NG	300 kWe	340 kWm	375 kWe	434 kWm
	LPG	210 kWe	235 kWm	250 kWe	299 kWm

SAE J1995 rated following S6100020 PSI Derate Specification with a tolerance of +/-5%. kWe values are based on standard assumptions for mechanical and electrical losses. Ratings and performance are solely for reference only and subject to site conditions and PSI application and ratings guidelines. The product images shown are for illustration purposes only and may not be an exact representation of the final product. All information is subject to change without notice.

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