



22LT 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 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

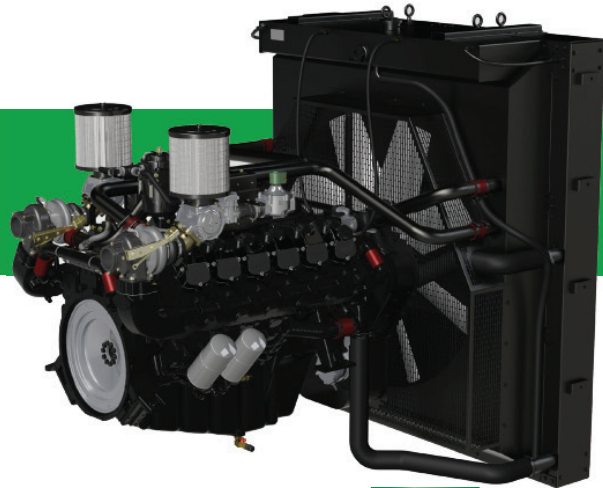
- Water-cooled, turbo-charged, air-to-air inter-cooled, stoichiometric with replaceable wet cylinder liners
- 50C Ambient Cooling Capacity
- Cast iron block & heads, 10.5:1 compression ratio, overhead valve/2V configuration
- Crankshaft gear-driven oil system with cartridge-type filter, belt-driven centrifugal 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
- 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	
22LT	397	340	238	360	450	299	374	1500
	510	434	304	455	569	375	468	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	
22LT	276	235	165	240	300	202	252	1500
	352	299	209	299	373	249	312	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 22LT ENGINE DATA

Model Number	22LT
Cylinders	V - 12
Induction System	Turbocharged & aftercooled
Combustion System	Spark-ignited
Cooling System	Water-cooled
Displacement	4.5 L
Bore & Stroke	128 mm x 142 mm
Fuel Type	Natural Gas / Propane
Direction of Rotation	Counter-clockwise viewed on flywheel
Dry Weight	1650 kg

