

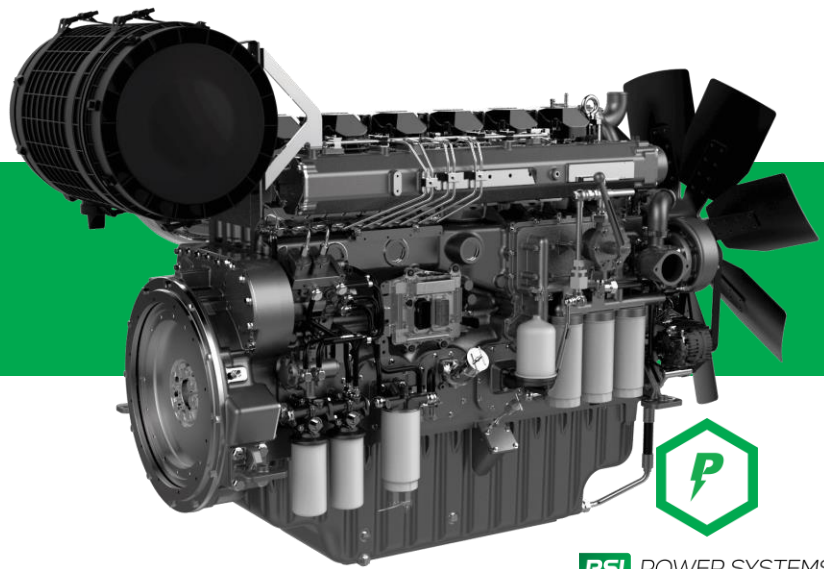
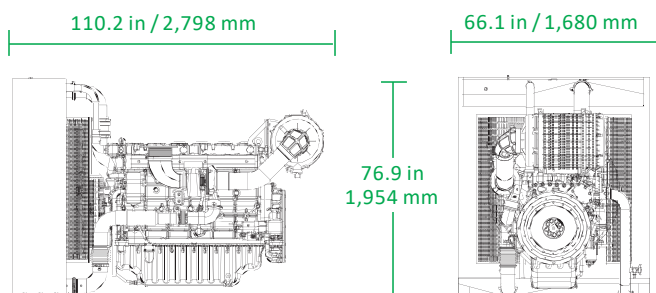
20L DIESEL ENGINE

The PSI 20-liter is a diesel engine developed from the block up to be a reliable and durable power unit. Built upon a proven marine-diesel cast iron block, the 6-cylinder in-line, turbocharged inter-cooled engine features replaceable wet liners and water-cooled cooling system.

PSI designs, engineers, and manufactures a range of advanced, emission-certified engines and power systems that run on a wide variety of fuels, including natural gas, propane, gasoline, diesel and bio-fuels within the energy end markets. The PSI Energy Diesel line includes 10L, 13L, 17L, 20L, 40L, and 53L engines. These engines are an extension of the PSI product line, which is based upon blocks from .998L to 8.8L. All PSI engines feature the same fuel systems and controls, simplifying your application development and support.

GENERAL DATA

- Cast iron cylinder block with inspection door per cylinder
- Cast iron cylinder liners, wet type and replaceable valves guides and seats
- Separate cast iron cylinder heads equipped with 4 valves
- Hardened steel forged crankshaft with induction hardened journals, crankpins and radius
- Thermostatically-controlled system with gear coolant pump and pusher fan
- Lube oil cooled light alloy pistons with high performance piston rings
- SAE 0 flywheel housing and 18" flywheel
- Heat shield for exhaust manifold and turbocharger
- Air filter and compressor pipe made in injection moulding
- 24V electric starter motor and battery charging alternator



PSI POWER SYSTEMS

FEATURES

- Manual oil pump, pre-lubricated to ensure good startability
- Lube oil purifier with replaceable cartridge
- Fresh water cooled lube oil cooler
- In line injection pump with flanged electronic governor
- Three-level filter integrated electric fuel pump, water separation filter

PSI 20-LITER ENGINE DATA

Model Number	20L-D
Cylinders	I-6 (in-line)
Induction System	Turbocharged inter-cooled
Emission Controls	Common rail
Displacement	1,197 cid (19,615 cc)
Fuel Injection System	High pressure common rail
Compression Ratio	15:1
Bore & Stroke	5.91 in x 7.28 in (150 mm x 185 mm)
Fuel Type	Diesel
Direction of Rotation	Counter-clockwise viewed on flywheel
Dry Weight	4,652 lb (2,110 kg)
Certification	EPA Stationary Emergency Certified

POWER RATINGS

STANDBY	60 Hz (1800 RPM)	
	550 kWe	610 kWm
	625 kWe	710 kWm

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.