

# 11.1L NATURAL GAS/PROPANE ENGINE

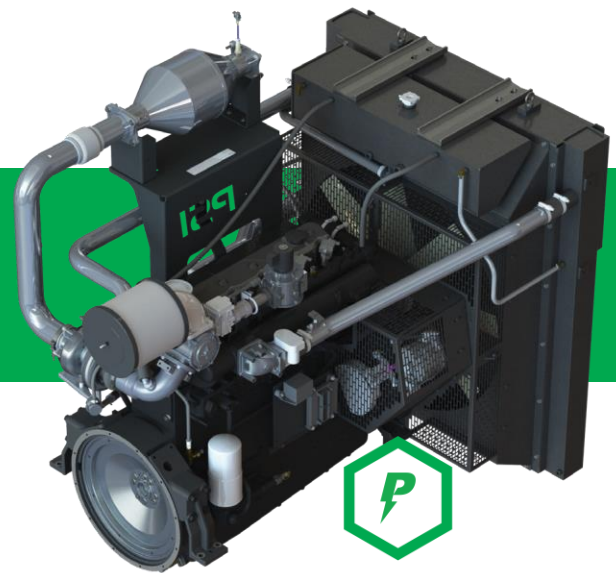
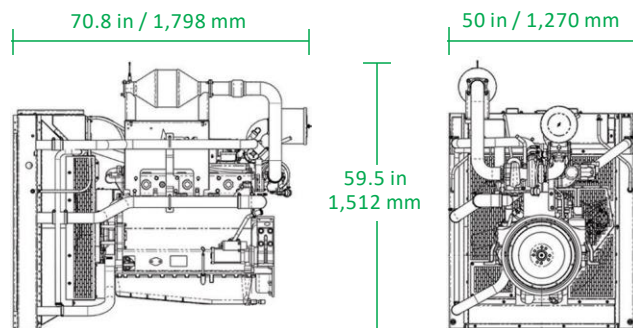
The PSI 11.1-liter is a U.S. EPA-certified natural gas and propane engine developed from the block up to be a reliable and durable power unit. Built upon a proven marine-diesel grade block, the 6-cylinder inline configuration, turbocharged and after-cooled engine features replaceable dry liners and water-cooled 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 Power Systems product lineup has displacements from 0.97 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, gear-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
- UL Class 1 Division 2 ignition system (option)
- Advanced diagnostics for improved up-time

## PSI 11.1-LITER ENGINE DATA

|                       |                                         |
|-----------------------|-----------------------------------------|
| Model Number          | 11.1L                                   |
| Cylinders             | I-6 (in-line)                           |
| Induction System      | Turbocharged & air-to-air charge cooled |
| Combustion System     | Spark-ignited                           |
| Cooling System        | Water-cooled                            |
| Displacement          | 673 cid (11,051 cc)                     |
| Compression Ratio     | 10.5:1                                  |
| Bore & Stroke         | 4.84 in x 6.1 in (123 mm x 155 mm)      |
| Fuel Type             | Natural Gas / Propane                   |
| Direction of Rotation | Anti-clockwise viewed on flywheel       |
| Dry Weight            | 2,600 lb (1,179 kg)                     |

## POWER RATINGS

|         |     | 50 Hz (1500 RPM) |         | 60 Hz (1800 RPM) |         |
|---------|-----|------------------|---------|------------------|---------|
| STANDBY | NG  | 175 kWe          | 200 kWm | 200 kWe          | 235 kWm |
|         | LPG | 115 kWe          | 134 kWm | 135 kWe          | 155 kWm |
| PRIME   | NG  | 150 kWe          | 180 kWm | 175 kWe          | 200 kWm |
|         | LPG | 100 kWe          | 121 kWm | 110 kWe          | 132 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.