

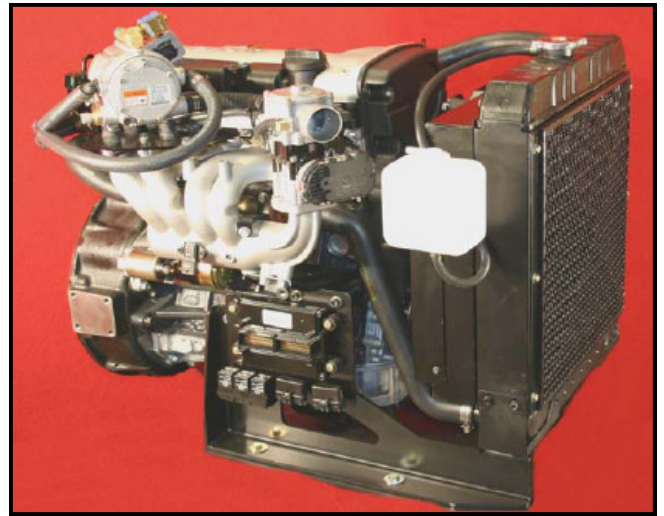
Gasoline, LPG & Natural Gas Engine

ZPP 420

2.0 LITER

For industrial applications

ZPP - THE POWER OF CHOICE

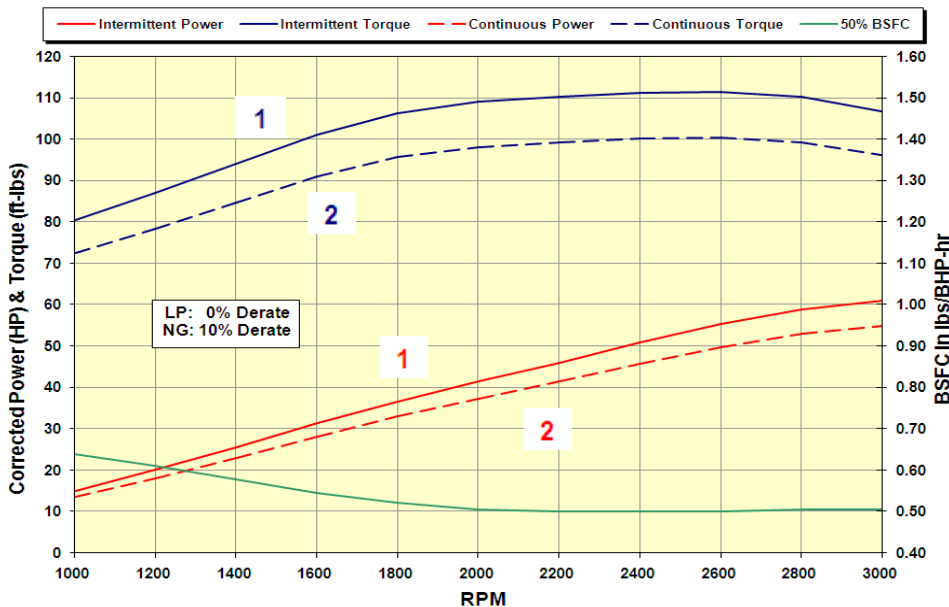


GENERAL SPECIFICATION

Intermittent Output	61 HP @ 3000 rpm
Continuous Output	55 HP @ 3000 rpm
Peak Torque	112 ft-lbs @ 2400 rpm
Fuel / Delivery	Gasoline / Multi-port - LPG / NG Mixer Type
Engine Configuration	4 Cylinder In-line, DOHC
Block Material	Cast Iron
Head Material	Cast Aluminum
Bore x Stroke (mm)	82.0 x 93.5
Total Piston Displacement	1975 cc
Compression Ratio	10.1 : 1
Length X Width x Height (mm)	533.5 x 624.8 x 672.0
Dry Weight (excluding shipped lose parts)	150.2 Kg
Catalyst (2007 emissions compliance)	Remote mounted

Note: HP and Torque figures shown for 2007 LSI - EPA/CARB certified engine with catalyst

ZPP-420 Gasoline Power, Torque, & BSFC Curves



Curve 1 - Intermittent Gross Output

This is the highest out put obtainable at standard ambient conditions from a basic engine equipped only with the built-in accessories essential to its operation. These levels may be only maintained for operating periods of short duration.

Applications: Scissor lifts, Aerial platforms, Scrubbers / Sweepers, Utility vehicles, Construction equipment.

Curve 2 - Continuous Gross Output

This is the output that can be obtained at standard ambient conditions from a basic engine, operating in a continuous duty mode.

Applications: Generator, Welders Water pumps, Gas compressors Carpet cleaners, etc



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ENGINE SPECIFICATIONS

General			Physical Data		
Cylinders	4		Length	21.0 in	533.5 mm
Cylinder Arrangement	Vertical In-line		Width	24.6 in	624.8 mm
Bore size	3.23 in	82.0 mm	Height	26.5 in	672.0mm
Stroke	3.68 in	93.5 mm	Weight	330.4 lb	150.2 kg
Cylinder Displacement	30.13 in ³	493.8 cc	Oil Capacity	4.2 Qt	4.0 L
Total Displacement	120.5 in ³	1975 CC			
Compression Ratio	10.1 : 1				
Fuel Systems			Electrical		
Gasoline	Multi-port		Starter Motor	12 V - 1.2 Kw	
LPG / NG	Mixer Type		Alternator	13.5 V - 80 A	
Fuel Pressure (gasoline)	3 bar			w/ built in regulator	
Fuel Pressure LPG / NG	< 5 in		Ignition	DIS	
Fuel Requirement	unleaded gasoline				
Fuel Pump	electric / PWM		Cooling		
Electronic Governor	ZEEMS III		Thermostat	180 ° F	82 ° C

