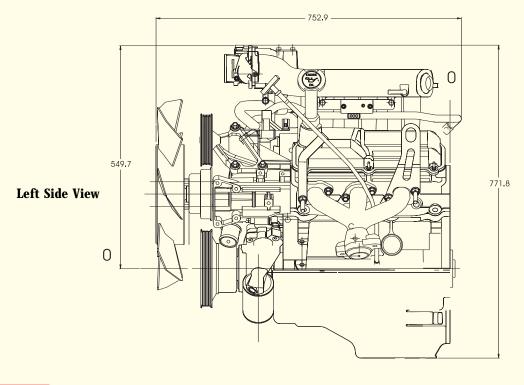
Installation Drawings

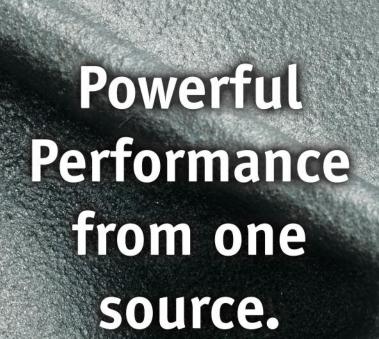
Front End View

679.7



ESG-642
Base Industrial
Engine
4.2-Litre
6-Cylinder









Contact Ford Power Products or your local FPP distributor for additional information.

Ford Power Products 15700 Lundy Parkway Drive Suite 200 Dearborn, MI 48126 Phone: 1-800-833-4773

Fax: 1-313-619-2600

Ford Power Products

Trafford House, Station Way Basildon, Essex, SS16 5XX, England Phone: 44 (0)1268 704181 Fax: 44 (0)1268 702121

ESG-642 Base Industrial Engine

4.2-Litre 6-Cylinder



OptionsFlywheel Housing

• SAE #3

Flywheels

• 11.5" (292.1 mm) Over-Center Clutch Aluminum Intake Manifold

Conventional Engine Cooling Fans
• 18.5" (470 mm) Diameter Suction

• 18.5" (470 mm) Diameter Pusher

Engine Supports (Rubber Isolated Mounts)
Electronic Control Modules (Refer to FPP 192-583)

Ignition Control Module (ICM)

• Engine Performance Module (EPM)

Wiring Harnesses
• ICM Application

• EPM Application

Exhaust Manifolds

• Center Dump Down

 Rear Dump Down Power Steering Pump

Oil Cooler Gaseous (LPG, NG, LPG/NG) Fuel Delivery System

Gasoline Fuel Injection (EFI/Sequential Port) System Water Pump-Mounted Fan

Lifting Eyes Three-Way Catalyst

Transmissions

Accompanying transmissions are available for the ESG-642 through Ford Power Products.

Emissions Information

EPA and ARB emission-certified packages available. Contact FPP or local distributor for specific details.

Warranty

Contact FPP or local distributor for warranty terms.

Specifications

...V-6 Engine Type.. ..3.81 in (96.8 mm) x 3.74 in (95.0 mm) Bore and Stroke ...4.2 Litre (256 CID) Displacement.. ...9.3:1 Compression Ratio6 Qts (5.68 litres) Oil Capacity. .403 Lbs (183 Kgs) Net Weight. ..L 29.6" x W 26.7" x H 30.3" Dimensions... (752.9 mm x 679.7 mm x 771.8 mm)

Gasoline (corrected per SAE J1995)

Fuel Specification	87 A.K.I.
Rated Power @ 3600 RPM	Intermittent: 146 HP (109 kW)
	Continuous: 125 HP (93 kW)
Peak Torque @ 2600 RPM	Intermittent: 240 Ft. Lbs. (325 Nm)
•	Continuous: 206 Ft. Lbs. (279 Nm)
Power @ 1800 RPM	Intermittent: 73 HP (54 kW)
	Continuous: 62 HP (46 kW)

Natural Gas (corrected per SAE J1995)

Fuel Specification	.1050 BTU/FT3
Rated Power @ 3600 RPM	.Intermittent: 120 HP (89 kW)
	Continuous: 102 HP (76 kW)
Peak Torque @ 2200 RPM	.Intermittent: 214 Ft. Lbs. (290 Nm)
•	Continuous: 182 Ft. Lbs. (246 Nm)
Power @ 1800 RPM	.Intermittent: 72 HP (54 kW)
	Continuous: 61 HP (45 kW)

Liquefied Petroleum Gas (corrected per SAE J1995)

Fuel Specification	ASI-Grade HD-5
Rated Power @ 3600 RPM	Intermittent: 131 HP (98 kW)
	Continuous: 114 HP (85 kW)
Peak Torque @ 2200 RPM	Intermittent: 238 Ft. Lbs. (322 Nm)
•	Continuous: 201 Ft. Lbs. (272 Nm)
Power @ 1800 RPM	Intermittent: 79 HP (58 kW)
	Continuous: 67 HP (50 kW)

Standard Features/Benefits

Cast Aluminum Cylinder Heads and Intake Manifold for improved power and fuel efficiency

Roller Lifter Camshaft for reduced friction and improved fuel efficiency

Cast Iron Cylinder Block with Four Main Bearing Caps for maximum strength

Internally Balanced Engine Components and Counter-Rotating Balance Shaft for smoother engine operation

Nodular Iron Crankshaft for durability

Six-Quart (with Filter) Capacity Aluminum Oil Pan for maximum oil supply

High-Flow Oil Pump for long engine life

Composite Rocker Arm Covers for noise reduction

Single Serpentine Accessory Drive Belt and Automatic Tensioner for long, maintenancefree operation

Hydraulic Valve Tappets for reduced maintenance

Harden Intake and Exhaust Valve Seats and Inserts for multi-fuel capability

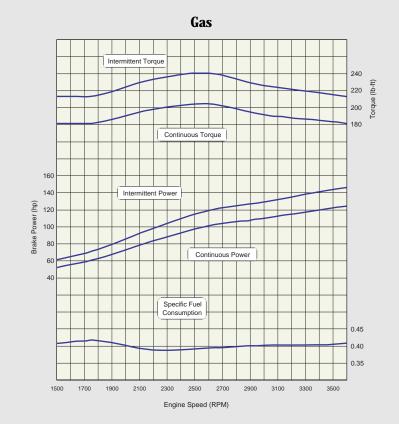
Closed-Loop Fuel Control for improved emissions control

Emissions Levels

g/bhp-hr	HC = NOx	CO
Standards	3.0	37.0
Certification Levels	0.5	5.7



Power Curves (corrected per SAE J1995)



Natural Gas Liquefied Petroleum Gas 1500 1700 1900 2100 2300 2500 2700

Above power curves utilized the FPP EPM and emission-certified package.

Engine Speed (RPM)