



Engine Pictured
with Optional
Equipment

CAT® ENGINE SPECIFICATIONS

I-3, 4-Stroke-Cycle Diesel

Bore	77 mm (3.03 in.)
Stroke	81 mm (3.19 in.)
Displacement	1.131 L (69.0 in³)
Aspiration	Naturally Aspirated
Compression Ratio	23:1
Combustion System	Indirect Injection
Rotation (from flywheel end)	Counterclockwise
Capacity for Liquids	
Cooling System	5.21 L (5.5 U.S. qts.)
Lube Oil System (refill)	4.9 L (5.2 U.S. qts.)
Engine Weight, Net Dry (approximate)	
with radiator package	129 kg (284 lb.)

FEATURES

Emissions

Meets 2008 Tier 4 Interim, Stage IIIA emissions requirements. Tier 4 Interim refers to EPA (U.S.) standards. Stage IIIA refers to European standards.

Reliable, Quiet, and Durable Power

World-class manufacturing capability and processes coupled with proven core engine designs assure reliability, quiet operation, and many hours of productive life.

High Performance

This radiator-cooled package delivers impressive performance up to a 3000 rpm rating.

Fuel Efficiency

Fuel consumption optimized to match operating cycles of a wide range of equipment and applications.

Broad Application Range

Industry leading range of factory configurable ratings and options for agricultural, materials-handling, construction, mining, aircraft ground support, and other industrial applications.

Package Size

Ultra-compact package size ensures ease of installation as well as exceptional power density. Radiators have been designed and air filters positioned for easy installation.

Low-Cost Maintenance

Single-side servicing improves ease of maintenance and simplifies the servicing routine. Service intervals at 500 hours are standard.

Testing

Every Cat® engine is quality tested to ensure proper engine performance.

World-class Product Support Offered Through Global Cat Dealer Network

- Scheduled maintenance
- Customer Support Agreements (CSA)
- Cat Extended Service Coverage (ESC)
- Superior dealer service network
- Extended dealer service network through the Cat Industrial Service Distributor (ISD) program

STANDARD EQUIPMENT

Options must be selected for the following features. See your Cat dealer for a detailed description of options for each feature.

Air Inlet

Inlet manifold

Control System

Alternator 12 volt 15 amp, starter motor 12 volt, glow plug starting aid

Cooling System

Belt-driven coolant pump, coolant temperature switch, mounted radiator and fan

Flywheels and Flywheel Housing

SAE No. 6 1/2 flywheel, SAE No. 5 flywheel housing

Fuel System

Fuel injection pump, fuel filter, Electronic Shut-off Solenoid (ESOS)

Lube System

Spin-on lube oil filter, lube oil pressure switch, lube oil sump

Power Take Off

Provision for timing case rear facing PTO

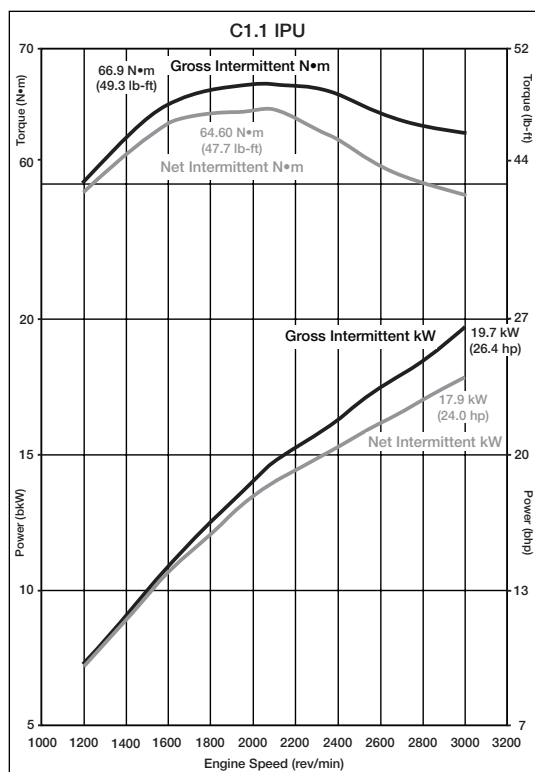
General

Cast iron engine block, cast iron exhaust manifold — side outlet, mounted air cleaner, cold start capability to -20° C (-4° F)

Web Site: For additional information on all your power requirements, visit www.cat-industrial.com.

PERFORMANCE DATA

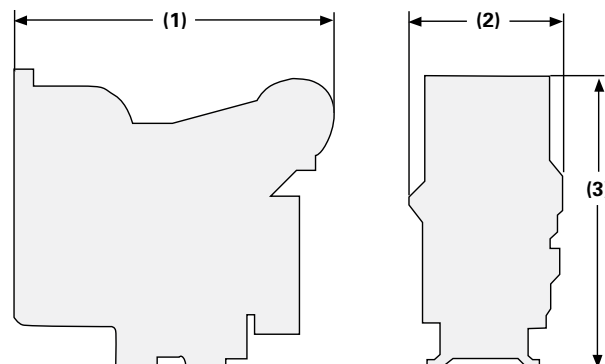
Naturally Aspirated — 3000 rpm



Lower speed ratings cannot be read from this curve.

Speed rpm	Power bkW	Torque N·m	Power bhp	Torque lb-ft
3000	17.9	64.6	24.0	47.6

DIMENSIONS



(1) Length	778 mm (30.6 in.)
(2) Width	438 mm (17.2 in.)
(3) Height	730 mm (28.7 in.)

Note: Dimensions depend on final specifications.

RATING DEFINITIONS AND CONDITIONS

IND-C (Intermittent) is the horsepower and speed capability of the engine where maximum power and/or speed are cyclic (time at full load not to exceed 50%).

Additional ratings are available for specific customer requirements. Consult your Cat dealer.

Rating Conditions for Diesel Engines — up to 6.6 liter are based on ISO/TR14396, inlet air standard conditions with a total barometric pressure of 100 kPa (29.5 in. Hg), with a vapor pressure of 1 kPa (.295 in. Hg), and 25°C (77°F). Performance is measured using fuel to specification EPA 2D 89.330-96 with a density of 0.845-0.850 kg/L @ 15°C (59°F) and fuel inlet temperature 40°C (104°F).