



Industrial Engine

C0.5

8.2-10.2 kW/11.0-13.7 bhp @ 2800-3600 rpm



Image shown
may not reflect
actual engine

CAT® ENGINE SPECIFICATIONS

I-2, 4-Stroke-Cycle Diesel

Bore	67 mm (2.64 in)
Stroke	72 mm (2.83 in)
Displacement	0.507 L (31.0 in³)
Aspiration	Naturally Aspirated
Compression Ratio	23.5:1
Combustion System	Indirect injection
Rotation (from flywheel end)	Counterclockwise
Capacity for Liquids	
Cooling System	1.1 L (1.16 U.S. qts)
Lube Oil System	
(refill)	1.61-2.01 L (1.70-2.12 U.S. qts)
Engine Weight, Net Dry	
(approximate)	57.0 kg (126.0 lbs)

FEATURES

Emissions

Ratings are available for Europe and, depending on applicable emission standards, may be introduced in other regulated areas. Nonroad engines less than 19 kW (25 hp) are not currently subject to EU emission 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

Delivers impressive performance throughout a wide speed range while maintaining low operating costs.

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.

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)
- Caterpillar Extended Service Coverage (ESC)
- Superior dealer service network
- Extended dealer service network through the Cat Industrial Service Distributor (ISD) program

STANDARD EQUIPMENT

Air Inlet

Inlet manifold with choice of inlets

Control System

Alternator 12V 14 amp, starter motor 12V, glow plug starting aid

Cooling System

Belt-driven coolant pump, coolant temperature switch, choice of cooling fans

Flywheel and Flywheel Housing

SAE No. 6 1/2 flywheel, choice of SAE No. 5 or standard backplate flywheel housing

Fuel System

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

Lube System

Closed circuit breather, spin-on lube oil filter, lube oil pressure switch, lube oil sump

General

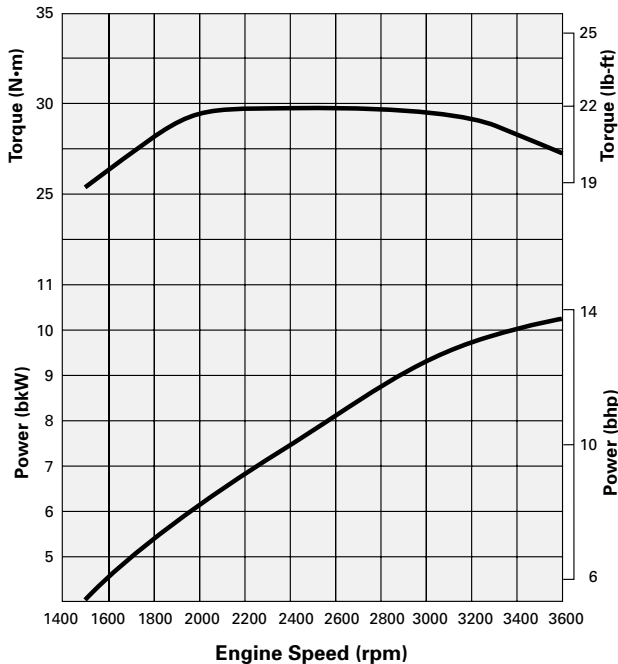
Cast iron engine block, cast iron exhaust manifold — side outlet, cold start capability to -20°C (-4°F), or move to lube system 35° maximum single for continuous operation.

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



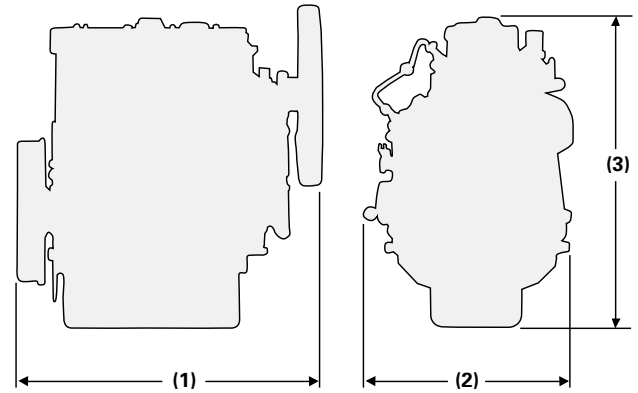
PERFORMANCE DATA

Naturally Aspirated — 3600 rpm



Speed rpm	Power kW	Torque N·m	Power bhp	Torque lb-ft
3600	10.2	27.1	13.7	20.0

DIMENSIONS



(1) Length	407 mm (16.0 in)
(2) Width	371 mm (14.6 in)
(3) Height	523 mm (20.6 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).