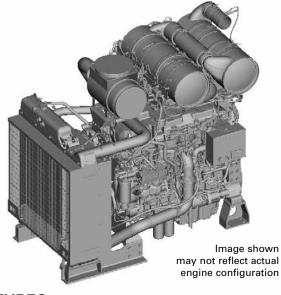


C13 ACERT™ Industrial Power Unit

Tier 4 Final, Stage IV Technology 287-388 bkW/385-520 bhp @ 1800-2100 rpm



FEATURES

Emissions

Designed to meet U.S. EPA Tier 4 Final, EU Stage IV 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

Simple and efficient turbocharger with balance valve provides optimal air management and improved fuel efficiency.

Fuel Efficiency

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

Fuel & Oil

Tier 4 Final, Stage IV engines require Ultra Low Sulfur Diesel (ULSD) fuel containing a maximum of 15 ppm sulfur, and new oil formulations to support the new technology. Cat[®] engines are designed to accommodate B20 biofuel. Your Cat dealer can provide more information regarding fuel and oil.

Broad Application Range

Industry-leading range of factory configurable ratings and options for agricultural, materialshandling, construction, mining, forestry, waste, and other industrial applications.

CAT® ENGINE SPECIFICATIONS

I-6, 4-Stroke-Cycle Diesel

Package Size

Exceptional power density enables standardization across numerous applications. Multiple installation options available to minimize total package size.

Low-Cost Maintenance

Worldwide service delivers ease of maintenance and simplifies the servicing routine. Minimum 5000-hour diesel particulate filter (DPF) ash service interval enables low-cost maintenance. Capable of optimal oil change intervals of up to 500 hours, depending on rating, application, operating conditions, and maintenance practices. Engine is designed for a B10 life of up to 10,000 hours. The S•O•S[™] program is available from your Cat dealer to determine oil change intervals and provide optimal performance.

Quality

Every Cat engine is manufactured to stringent standards in order to assure customer satisfaction.

World-class Product Support Offered Through Global Cat Dealer Network

- Scheduled maintenance, including S•O•S[™] sample
- 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

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



C13 ACERT[™] Industrial Power Unit

Tier 4 Final, Stage IV Technology 287-388 bkW/385-520 bhp @ 1800-2100 rpm

STANDARD ENGINE EQUIPMENT

Control System

Electronic control system, over-foam wiring harness, automatic altitude compensation, power compensated for fuel temperature, remote fan control, configurable software features, engine monitoring system SAE J1939 broadcast and control, integrated Electronic Control Unit (ECU)

Cooling System

Vertical outlet thermostat housing, centrifugal water pump, guidance on cooling system design available through your dealer to ensure equipment reliability

Exhaust System

Mid-mount turbocharged system with rear exhaust configuration

Flywheels and Flywheel Housing

SAE No. 1 flywheel housing; available SAE 1 power take-off housing with optional SAE A, SAE B, and SAE C power take-off drives; engine power can also be taken from the front of the engine with optional attachments

Fuel System

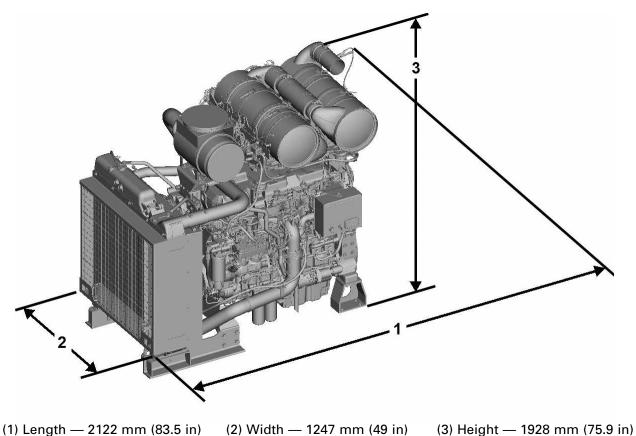
MEUI injection; primary fuel filter, secondary fuel filters, fuel transfer pump, electronic fuel priming

Lube System

Open crankcase ventilation system with fumes disposal (optional OCV filter system); oil cooler, oil filler, oil filter, oil dipstick, oil pump (geardriven); choice of sumps (front, rear, and center)

General

Paint: Cat yellow



DIMENSIONS

Note: Final dimensions dependent on selected options

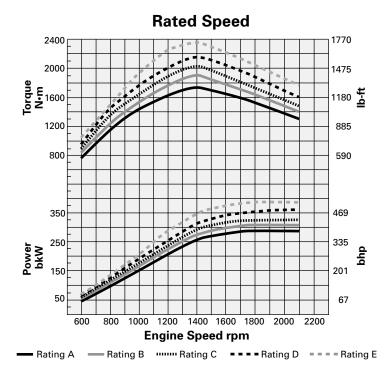


C13 ACERT[™] Industrial Power Unit

Tier 4 Final, Stage IV Technology 287-388 bkW/385-520 bhp @ 1800-2100 rpm

PERFORMANCE DATA — PRELIMINARY

Turbocharged-Aftercooled — 1800-2100 rpm



Speed Range

Rating	Aspiration	Rated Speed rpm	Rated Power bkW	Rated Power bhp	Speed rpm	Peak Torque N•m	Peak Torque Ib-ft
Α	TA	2100	287	385	1400	1762	1300
В	TA	2100	309	415	1400	1900	1401
С	TA	2100	328	440	1400	2014	1485
D	TA	2100	354	475	1400	2174	1603
E	TA	2100	388	520	1400	2380	1755

RATING DEFINITIONS AND CONDITIONS

IND-A (Continuous) for heavy duty service where the engine is operated at maximum power and speed up to 100% of the time without interruption or load cycling.

IND-B for service where power and/or speed are cyclic (time at full load not to exceed 80%).

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%).

IND-D for service where maximum power is required for periodic overloads.

IND-E for service where maximum power is required for a short time for initial starting or sudden overload. For emergency service where standard power is unavailable (time at full load not to exceed 5% of the duty cycle).

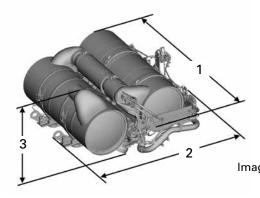
Rating Conditions are based on SAE J1995, inlet air standard conditions of 99 kPa (29.31 in Hg) dry barometer and 25°C (77°F) temperature. Performance measured using a standard fuel with fuel gravity of 35° API having a lower heating value of 42 780 kJ/kg (18,390 btu/lb) when used at 29°C (84.2°F) with a density of 838.9 g/L.



C13 ACERT[™] Industrial Power Unit

Tier 4 Final, Stage IV Technology 287-388 bkW/385-520 bhp @ 1800-2100 rpm

AFTERTREATMENT CONFIGURATION



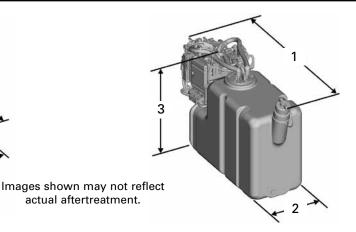
STANDARD CONFIGURATION SHOWN Approximate Size and Weight

(1) Length — 1077 mm (42.4 in)
(2) Width — 1069 mm (42.1 in)
(3) Height — 654 mm (25.7 in)
Weight — 248-259 kg (547-571 lbs)*

*Depending on configuration

CEM Configuration

Standard configuration includes Diesel Particulate Filter (DPF), Diesel Oxidation Catalyst (DOC), Selective Catalytic Reduction (SCR), and supporting structure. Multiple mounting configuration options available for aftertreatment system.



MAXIMUM 48.4 L (51.1 U.S. qt) PETU CONFIGURATION SHOWN Approximate Size and Weight

Length — 854 mm (33.6 in)
Width — 287 mm (11.3 in)
Height — 551 mm (21.7 in)
Weight, dry — 19.42 kg (42.8 lbs)

PETU Configuration

Pump Electronic Tank Unit (PETU), consisting of Diesel Exhaust Fluid (DEF) tank with integrated Dosing Control Unit (DCU). Available in different volume configurations.

Contact your Cat dealer for additional information.

AFTERTREATMENT FEATURES

Regeneration: Cat Regeneration System maximizes fuel efficiency during regeneration. Transparent regeneration maximizes uptime.

Mounting: Industrial power units have standard horizontal mounting.

Service: Minimum 5000-hour diesel particulate filter ash service interval. PETU filter service is 5000 hours.

Available in 12V or 24V systems

STANDARD EMISSIONS CONTROL EQUIPMENT

Cat Regeneration System CEM: Clean Emissions Module DOC: Diesel Oxidation Catalyst ECU: Aftertreatment Electronic Control Unit **DPF:** Diesel Particulate Filter **NRS:** NOx Reduction System **SCR:** Selective Catalytic Reduction **PETU:** Pump Electronic Tank Unit

Materials and specifications are subject to change without notice. The International System of Units (SI) is used in this publication. CAT, CATERPILLAR, their respective logos, ACERT, S•O•S, "Caterpillar Yellow" and the "Power Edge" trade dress, as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.