



The Cat® C11 ACERT™ Industrial Power Unit is offered in ratings ranging from 242-287 bkW (325-350 bhp) @ 1800-2100 rpm. These ratings meet China Stage II, U.S. EPA Tier 3 equivalent or EU Stage IIIA equivalent emission standards. Conveniently pre-configured for a wide range of applications, the Cat® Industrial Power Unit is a complete power package containing a radiator, flywheel, alternator and alternator wiring completely pre-assembled for fast, straightforward installation in a number of OEM, customer and packager applications. These fuel efficient units are ready made for irrigation, industrial, mining and other pump applications.

## Specifications

Power Rating		
Minimum Rating	242 bkW	325 bhp
Maximum Rating	287 bkW	385 bhp
Rated Speed	1800-2100 rpm	

Emission Standards	
Emissions	China Stage II, U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent

General	
Engine Configuration	Inline 6, 4-Stroke-Cycle Diesel
Bore	130 mm (5.1 in)
Stroke	140 mm (5.5 in)
Displacement	11 L (677 in³)
Aspiration	Turbocharged Aftercooled (TA)
Compression Ratio	17.2:1
Rotation (from flywheel end)	Counterclockwise
Cooling System Capacity	14.2 L (15 qt)

Power Unit Dimensions (Approximate. Final dimensions dependent on selected options)	
Length	1203 mm (47.4 in)
Width	1054 mm (41.5 in)
Height	1186 mm (46.7 in)
Weight - Net Dry (Standard configuration without oil, cooling, clutch, compressor, A/C)	1692 kg (3730 lb)

## Benefits and Features

## **Emissions**

Meets China Stage II, U.S. EPA Tier 3 equivalent, EU Stage IIIA equivalent emission standards. Available using EPA (U.S.) Flexibility and EU Flexibility, and for other regulated and non-regulated areas.

## **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.

## **Broad Application Range**

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

## **Package Size**

Exceptional power density enables standardization across numerous applications. Multiple installation options minimize total package size. Ideal for equipment with narrow engine compartments.

## **Quality**

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

## **World-class Product Support Offered Through Global Cat Dealer Network**

- Scheduled maintenance, including SOSSM 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

## **Standard Equipment**

### **Air Inlet System**

- Turbocharged
- Air-to-Air Aftercooled

### **Control System**

- Electronic governing, PTO speed control
- Programmable ratings
- Automatic altitude compensation
- Power compensation for fuel temperature
- Programmable low and high idle and total engine limit
- Electronic diagnostics and fault logging
- Engine monitoring system SAE J1939 broadcast and control
- ADEM™ A4 Electronic Control Unit (ECU)

### **Cooling System**

- Thermostats and housing, vertical outlet
- Jacket water pump, centrifugal
- Water pump, inlet

### **Exhaust System**

- Exhaust manifold, dry

- Optional exhaust outlet

#### **Flywheels and Flywheel Housing**

- SAE No. 1 flywheel housing

#### **Fuel System**

- MEUI injection
- Fuel filter, secondary (2 micron)
- ACERT™ Technology
- Fuel transfer pump
- Fuel priming pump

#### **Lube System**

- Crankcase breather
- Oil cooler
- Oil filler
- Lube oil filter
- Front sump oil pan
- Oil dipstick
- Gear driven oil pump

#### **General**

- Vibration damper
- Lifting eyes
- Cold start capability to -20° C (-4° F)
- Paint: Caterpillar yellow, with optional colors available at request

The International System of Units (SI) is used in this publication. CAT, CATERPILLAR, their respective logos, ADEM, EUI, 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.



C11 ACERT  
242 bkW (325 bhp) @ 2100 rpm

Rating Type: IND-A (CONTINUOUS) RATING

Emissions: U.S. EPA Tier 3 Nonroad Equivalent Emission  
Standards (Not Currently EPA Certified)

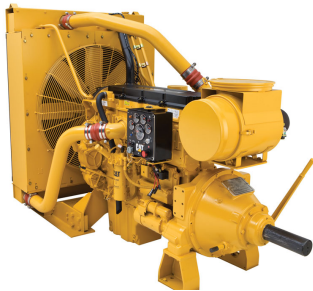


Image shown may not reflect actual configuration

C11 ACERT  
DITA  
242 bkW (325 bhp) @ 2100 rpm

	Metric	English
General Engine		
Power Rating	242 kW	325 hp
Number of Cylinders	6	
Bore	130 mm	5.1 in
Stroke	140 mm	5.5 in
Displacement	11.1 L	677.0 cu in.
Compression Ratio	17.2 : 1	

RATING DEFINITIONS AND CONDITIONS

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

Diesel Engines — up to 7.1 liter All rating conditions 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 measured using fuel to EPA specifications in 40 CFR Part 1065 and EU specifications in Directive 97/68/EC with a density of 0.845-0.850 kg/L @ 15°C (59°F) and fuel inlet temperature 40°C (104°F).

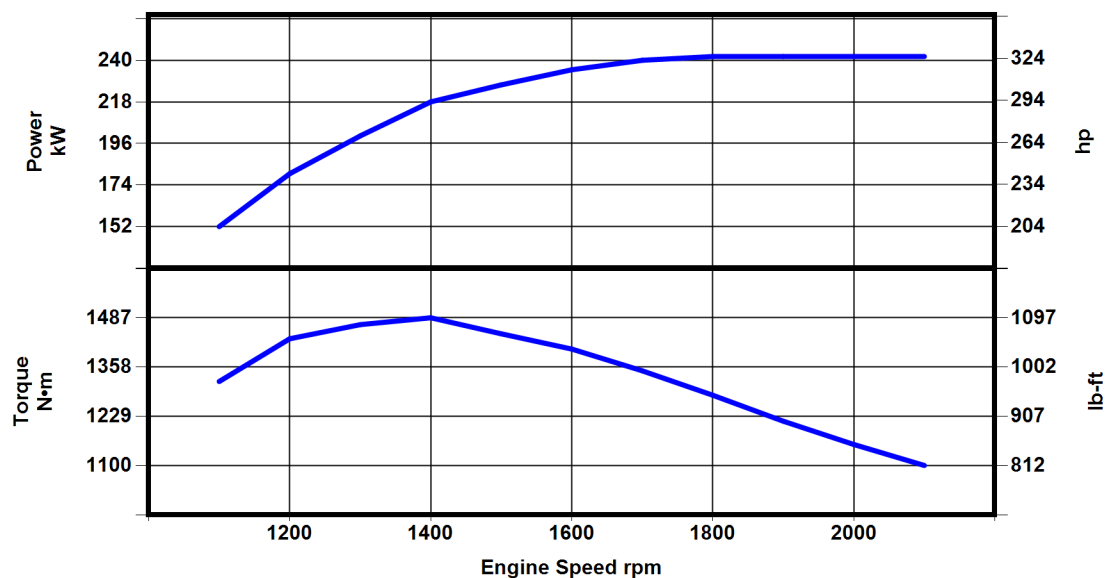
Diesel Engines — greater than 7.1 liter All rating conditions are based on SAE J1995, inlet air standard conditions of 99 kPa (29.31 in Hg) dry barometer and 25°C (77°F) temperature. Performance measured using a standard fuel with fuel gravity of 35° API having a lower heating value of 42,780 kJ/kg (18,390 btu/lb) when used at 29°C (84.2°F) with a density of 838.9 g/L.

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**Emissions: U.S. EPA Tier 3 Nonroad Equivalent Emission Standards (Not Currently EPA Certified)**



Engine Speed rpm	Engine Power bkW	Engine Power bhp	Torque N*m	Torque lb-ft
2100	242	325	1100	812
2000	242	325	1155	852
1900	242	325	1216	897
1800	242	325	1284	947
1700	240	322	1348	994
1600	235	316	1405	1036
1500	227	304	1445	1066
1400	218	292	1487	1097
1300	200	268	1469	1084
1200	180	241	1432	1056
1100	152	204	1320	973

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