



The Cat® C18 ACERT™ Industrial Power Unit is offered in ratings ranging from 429-470 bkW (575-630 bhp) @ 1800-2100 rpm. These ratings meet China Stage II, U.S. EPA Tier 3 equivalent and EU Stage IIIA equivalent or Non-certified 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	429 bkW	575 BHP
Maximum Rating	470 bkW	630 BHP
Rated Speed	1800-2100	

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

General	
Engine Configuration	Inline 6, 4-Stroke-Cycle Diesel
Bore	145 mm (5.71 in)
Stroke	183 mm (7.2 in)
Displacement	18.1 L (1104.53 in³)
Aspiration	Turbocharged Aftercooled (TA)
Compression Ratio	16.3:1
Rotation from Flywheel End	Counterclockwise

Power Unit Dimensions - Approximate	
Height	1243 mm (48.9 in)
Length	1388 mm (54.6 in)
Weight - Net Dry - Standard Configuration Without Oil, Cooling, Clutch, Compressor, A/C	2197.1 kg (4843.7 lb)
Width	921 mm (36.3 in)

## Benefits and Features

**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.

**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 Aftercooled (429-470 kW, 575-630 bhp)
- Twin Turbocharged Aftercooled (522-597 kW, 700-800 bhp)
- Air-to-Air Aftercooled

**Charging System**

- Charging alternator 24 volt, 50 amp

**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.