



The C7.1 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		
Maximum Power	205 kW	275 HP
Maximum Torque	1050 Nm @ 1400 rpm	774 lb-ft @ 1400 rpm
Rated Speed	116-205 bkW/156-275 bhp @ 2200 rpm, 129 bkW/173 bhp @ 2500 rpm	
Minimum Power	116 kW	156 HP

Emission Standards	
Emissions	China Nonroad Stage III, Brazil MAR-1, UN ECE R96 Stage IIIA

General		
Engine Configuration	Inline 6, 4-Stroke-Cycle Diesel	
Bore	105 mm	4.1 in
Stroke	135 mm	5.3 in
Displacement	7.01 l	427.7 in ³
Compression Ratio	16.8:1	
Aspiration	Turbocharged Aftercooled (TA)	
Rotation from Flywheel End	Counterclockwise	
Aftertreatment	-	

Power Unit Dimensions		
Length	1728 mm	68 in
Width	788 mm	31 in
Height	1140 mm	44.8 in
Weight	788 kg	1737 lb

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.

Fuel Efficiency

Fuel consumption optimized to match operating cycles of a wide range of equipment and applications while maintaining low operating costs.

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 SOS[®] 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**

- Standard air cleaners

Control System

- Full electronic control system, all connectors and wiring looms waterproof and designed to withstand harsh off-highway environments
- Flexible and configurable software features and well-supported SAE J1939 CAN bus enables highly integrated machines

Cooling System

- Top tank temperature 108° C (226° F) as standard to minimize cooling pack size
- 50:50 water glycol mix
- Cooling system designed for operation in 48 C (118 F) ambient.

Flywheels and Flywheel Housing

- Wide choice of drivetrain interfaces, including SAE No. 1, SAE No. 2, and SAE No. 3 configurations

Fuel System

- Electronic high pressure common rail
- ACERT Technology
- Innovative filter design to ensure maximum protection of the engine

Lube System

- Wide choice of sumps for different applications

Power Take Off

- SAE A or SAE B flanges on left-hand side. Right-hand side twin PTO also available. Engine power can also be taken from the front of the engine on some applications.

General



- Paint: Caterpillar yellow

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