



G3600 A4 engines provide a wide range of power options to fit your gas compression application. G3600 A4 engines bring the highest uptime in the industry and long operating intervals between overhaul. Operators that use G3600 A4 engines in their fleet enjoy virtually no unscheduled downtime, the right power for their application, the lowest operating costs, and emissions compliance. Ideal applications for G3600 A4 engines include centralized gathering stations, gas processing, transmissions, and storage applications. Cat G3608 A4 gas engine with ratings: 1864-1995 bkW (2500-2675 bhp) @ 1000 rpm. NSPS site compliant capable.

### Specifications

Engine Specifications		
Minimum Rating	1864 bkW	2500 bhp
Maximum Rating	1995 bkW	2675 bhp
Emissions	NSPS Site Compliant Capable	
Displacement	169.6 L	10350 in3
Compression Ratio	9.2:1	
Aspiration	Turbocharged-Aftercooled	
Rotation (from flywheel end)	Counterclockwise	
Flywheel Teeth	255	
Weight (dry)	21092 kg	46500 lb
Oil Change Interval	5000 hours	
Ignition, Protection	ADEM™ A3	
Stroke	300 mm	11.8 in
Bore	300 mm	11.8 in

Capacity for Liquids		
Cooling System	530 L	140 gal
Lube Oil System (refill)	912 L	241 gal

### Benefits and Features

#### Engine Design

Industry-leading power with ambient-based rating capability - ADEM A4 engine control system provides complete engine control, monitoring, and protection while maintaining emissions. - Widest fuel tolerance in the industry for application flexibility - Proven reliability and durability with the lowest owning and operating costs - Factory-installed thermostats

#### Emissions

Meets U.S. EPA Spark Ignited Stationary NSPS Emissions for 2010 with the use of an oxidation catalyst

### Lean Burn Engine Technology

Lean-burn engines operate with large amounts of excess air. The excess air absorbs heat during combustion reducing the combustion temperature and pressure, greatly reducing levels of NOx. Lean-burn design also provides longer component life and excellent fuel consumption.

### Ease of Operation

High-strength pan and rails for excellent mounting and stability - Side covers on block allow for inspection of internal components

### Advanced Digital Engine Management

ADEM A4 engine management system integrates speed control, air/fuel ratio control, and ignition/detonation controls into a complete engine management system. ADEM A4 has improved: user interface, display system, shutdown controls, and system diagnostics.

### Full Range of Attachments

Large variety of factory-installed engine attachments reduces packaging time.

### Testing

Every engine is full-load tested to ensure proper engine performance.

### Gas Engine Rating Pro

GERP is a PC-based program designed to provide site performance capabilities for Cat® natural gas engines for the gas compression industry. GERP provides engine data for your site's altitude, ambient temperature, fuel, engine coolant heat rejection, performance data, installation drawings, spec sheets, and pump curves.

### Product Support Offered Through Global Cat Dealer

More than 2,200 dealer outlets Cat factory-trained dealer technicians service every aspect of your petroleum engine Cat parts and labor warranty Preventive maintenance agreements available for repairbefore-failure options S•O•SSM program matches your oil and coolant samples against Caterpillar set standards to determine:

- Internal engine component condition
- Presence of unwanted fluids
- Presence of combustion by-products
- Site-specific oil change interval

### Over 80 Years of Engine Manufacturing Experience

Over 80 years of natural gas engine production Ownership of these manufacturing processes enables Caterpillar to produce high quality, dependable products - Cast engine blocks, heads, cylinder liners, and flywheel housings

- Machine critical components
- Assemble complete engine

## Standard Equipment

### Air Inlet System

- Air cleaner — standard-duty
- Inlet air adapter

### Control System

- A4 control system — provides electronic governing integrated with air/fuel ratio control and individual cylinder ignition timing control

### Cooling System

- Jacket water pump
- Jacket water thermostats and housing
- Aftercooler/oil cooler pump
- Aftercooler/oil cooler thermostats and housing

- Two-stage aftercooler
- Jacket water heater connections
- Standard ANSI connections

### **Exhaust System**

- Dry wrapped exhaust manifolds
- Vertical outlet adapter

### **Flywheels & Flywheel Housings**

- SAE standard rotation

### **Fuel System**

- Gas admission valves -- electronically controlled fuel supply pressure

### **Ignition System**

- A4 control system -- senses individual cylinder detonation and controls individual cylinder timing

### **Lube System**

- Crankcase breather — top mounted
- Oil cooler
- Oil filter
- Oil pan drain valves

### **Mounting System**

- Engine mounting feet (six total)

### **Protection System**

- Electronic shutoff system with purge cycle
- Crankcase explosion relief valves
- Gas shutoff valve

### **Starting System**

- Air starting system

### **General**

- Paint — Cat yellow
- Vibration damper

## **Optional Equipment**

### **Air Inlet System**

- Heavy-duty air cleaner — with precleaners
- Heavy-duty air cleaner with rain protection

### **Charging System**

- Charging alternators

### **Control System**

- Custom control system software — available for nonstandard ratings, field programmable using flash memory

### **Cooling System**

- Expansion tank
- Flexible connections
- Jacket water heater

### Exhaust System

- Flexible bellows adapters
- Exhaust expander
- Weld flanges

### Fuel System

- Fuel filter
- Gas pressure regulator
- Flexible connection

### Instrumentation

- LCD display panel
- Color HMI Display
- Remote data monitoring and speed control
- Compatible with Cat Electronic Technician (ET) and Data View
- Modbus and Ethernet capable

### Lube System

- Air or electric motor-driven prelube
- Duplex oil filter

### Mounting System

- Mounting plates (set of six)

### Power Take-Offs

- Front stub shafts

### Starting System

- Air pressure reducing valve

### General

- Engine barring device
- Dual vibration damper with guard

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