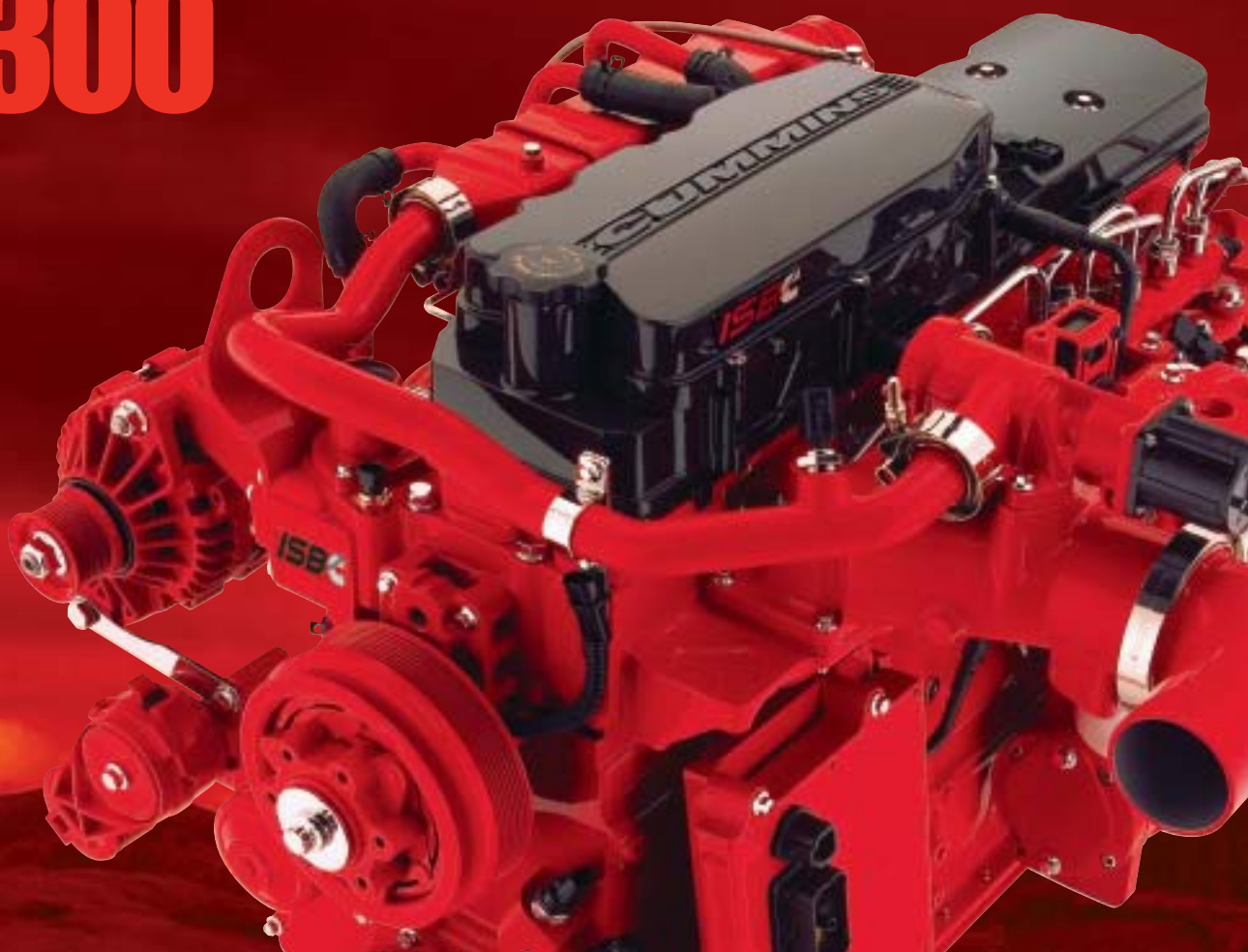




# EVERY<sup>TM</sup> DESTINATION.

## ISB 300



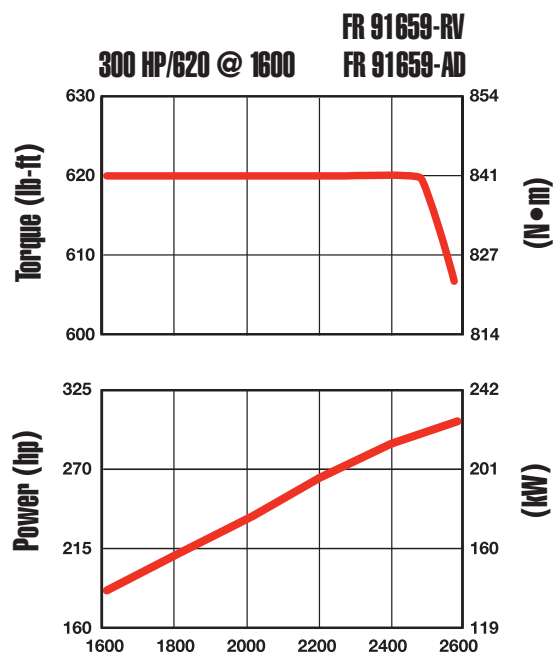
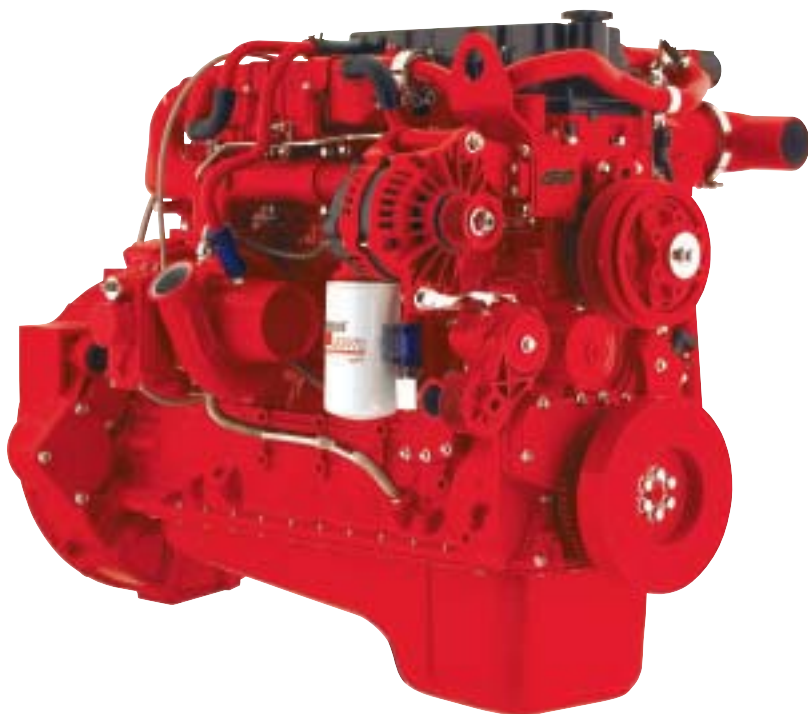
FOR MOTORHOMES

# FOR MOTORHOMES.

## ISB 300

The Cummins ISB has a long reputation as the most fuel-efficient engine in the motorhome industry. The ISB utilizes the Cummins Variable Geometry Turbocharger (VG Turbo) and High Pressure Common Rail (HPCR) fuel system to produce outstanding driveability, integrated exhaust braking and, arguably, the quietest diesel engine in a motorhome today. Its industry-leading fuel economy, extended oil change intervals and minimal maintenance requirements also make the ISB the low-cost-of-ownership leader in its class.

The ISB has been developed to optimize every aspect of the engine's operation, utilizing Cummins comprehensive in-house design approach to every engine system from the air intake to the exhaust system. Integration of Cummins advanced electronic controls, VG Turbo, high-pressure fuel system, combustion technology and exhaust aftertreatment is how the ISB delivers on the performance and value expectations of the motorhome owner. And the ISB does it while being certified and compliant to the toughest standards, the 2007 EPA emissions regulations.



### Specifications

ADVERTISED HORSEPOWER	300 HP	224 kW
PEAK TORQUE	620 LB-FT	841 N•M
GOVERNED SPEED	2600 RPM	
CLUTCH ENGAGEMENT TORQUE	400 LB-FT	542 N•M
NUMBER OF CYLINDERS	6	
OIL SYSTEM CAPACITY	4 U.S. GALLONS	15.1 LITERS
SYSTEM WEIGHT	1,190 LB	540 KG
ENGINE (DRY)	1,150 LB	522 KG
AFTERTREATMENT*	40 LB	18 KG

\*Increase over standard muffler.

Cummins is a pioneer in product improvement. Thus specifications may change without notice. Illustrations may include optional equipment.

## Features And Benefits.

The High Pressure Common Rail (HPCR) fuel system and VG Turbo combine to deliver enhanced driveability and improved fuel economy.

Benefits include:

- Outstanding performance with fully integrated design
  - Enhanced High Pressure Common Rail fuel system delivers optimum balance of performance, emissions control and fuel economy across the entire operating range
  - Patented VG Turbo has enhanced response and control with electric actuation for infinite adjustment
  - Cummins Particulate Filter is fully integrated for uncompromising performance, reliability. Reduces particulate matter more than 90%



- Crankcase ventilation system is electronically managed for optimum efficiency and eliminates oil carryover
- Industry-leading fuel economy
  - 24-valve cylinder head provides superior “breathing”
  - Vertical-centered injector position optimizes combustion
  - Cooled Exhaust Gas Recirculation lowers combustion temperatures for reduced emissions and optimized mpg
- Engine braking without additional add-on hardware
  - The VG Turbo functions as an engine brake
  - Eliminates exhaust brake maintenance concerns
- Low cost of ownership
  - 15,000-mile (24,000 km) or 1-year oil change intervals
  - “No-adjust” 150,000-mile (240,000 km) engine overhead

## Equipment That Makes A Difference.

- Cummins 15.2-cfm air compressor is optional on ISB (not available on ISB AD)
- Water-in-fuel sensor alerts drivers of contamination that could cause performance and durability problems
- RoadRelay™ 4 is an onboard monitoring system that provides the driver with trip information such as mpg, engine fault details and optional anti-theft protection



## Enhanced Reliability And Durability.

The Cummins ISB is designed for years of dependable use in many different applications, including motorhomes.

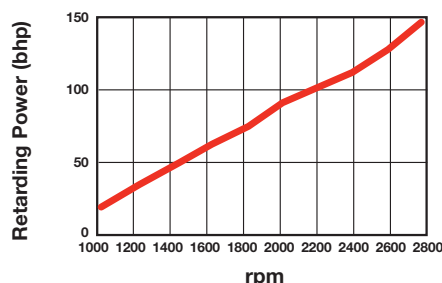
- Directed piston cooling
  - Lowers piston and oil ring temperatures
  - Heavy-duty feature
- Vertical-centered fuel injection
  - Results in uniform piston ring temperatures
  - Improves oil consumption control
- The Holset Variable Geometry Turbocharger
  - Enhances reliability because it has only one moving part in the hot exhaust flow
- Integrated combustion air heater
  - Proven durability
  - Eliminates the need for glow plugs or add-on starting aids
- Combination full-flow/bypass lube oil filter
  - Delivers better filtration for longer component life

## Electronic Features.

A single ECM (Electronic Control Module) controls the engine and aftertreatment. It also coordinates interaction with the transmission, ABS, engine brake, cooling fan and more. Plus, the ISB has every diagnostic, maintenance-monitoring and engine protection feature that you need.

## Exhaust Braking.

The Holset Variable Geometry Turbocharger (VG Turbo) provides exhaust braking without additional add-on hardware in the exhaust system and eliminates exhaust brake maintenance. The operator activates braking by using the brake switch in the driver's compartment. ISB exhaust braking assists in stopping the motorhome while reducing wear on the service brakes.



## ISB Maintenance Intervals.

	MILES KILOMETERS	MONTHS
OIL AND FILTER	15,000 24,000	12
FUEL FILTER	15,000 24,000	12
COOLANT FILTER	NONE*	NONE*
OVERHEAD ADJUSTMENT	150,000 240,000	48
COALESCING FILTER	60,000 96,000	24
PARTICULATE FILTER CLEANING	200,000-400,000 320,000-640,000	

\*If engine is equipped with an optional coolant filter, it will need to be replaced on the same intervals as the oil filter.

Cummins ISB is fully compatible with long-life coolant/antifreeze formulas which allow changes out to six years. Follow maintenance guidelines recommended by the manufacturer for safe use with extended service intervals.

See Owner's Manual for complete details.

## Warranty And Extended Coverage Plans.

### Standard Motorhome Warranty (U.S. and Canada only):

The ISB 300 motorhome warranty is 5 years or 100,000 miles (160,935 km), whichever comes first.

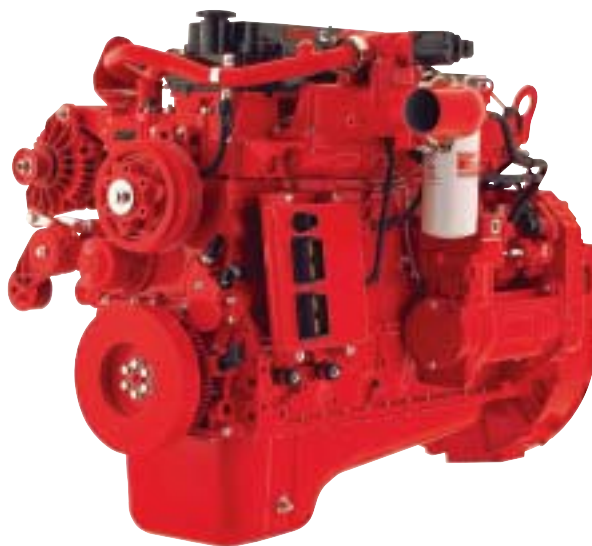
The ISB 300 AD motorhome warranty provides coverage for 3 years or 75,000 miles (120,701 km), whichever comes first.

All Cummins motorhome warranties cover:

- Parts and labor and progressive damage resulting from engine failure due to defects in material or factory workmanship
- Towing for the first year
- Complete warranty details are provided in Cummins Bulletin 3381340

### Optional Extended Coverage Plans (ISB 300 only):

- Plans available for purchase through Cummins distributors
- 5 years/150,000 miles (241,402 km) or 5 years/200,000 miles (321,869 km)
  - Covers 100% parts and labor except maintenance items
  - See Cummins Bulletin 3381368 for details
- 7 years/150,000 miles (241,402 km) or 10 years/200,000 miles (321,869 km)
  - Major components coverage
  - See Cummins Bulletin 3381367 for details







## QuickServe® Online.

The right information is priceless. Things change so rapidly today, you can't afford to take a chance on outdated information. Paper manuals and CD-ROMs can't always keep pace with ever-changing parts and service information. You need the most current information – continuously updated – every minute of every day. The Internet is the answer. QuickServe Online is your complete reference for Cummins parts and service information on the Internet. For more information, contact your local Cummins distributor or log on to [quickserv.cummins.com](http://quickserv.cummins.com).



## Coach Care.™

Coach Care is a network of service centers dedicated to making every maintenance or repair event a pleasant experience. Coach Care facilities are:

- Designed to meet the needs of motorhome owners
- Cummins distributor locations, fully certified by Cummins and Cummins Power Generation
- Certified to work on most motorhome chassis
- Capable of performing many appliance repairs (most locations)
- Equipped with overnight parking, electrical hookups, sanitation and sewage disposal
- Located near America's most popular motorhome destinations. Call 1-800-DIESELS for locations

For more information, check out the Coach Care section at [funroads.com](http://funroads.com).

## Cummins Customer Support.

Our Customer Care programs for motorhome buyers are unmatched by anyone else in the motorhome industry. Key elements of Cummins customer support include:

- Personalized factory assistance regarding general product and warranty support, product information, service location assistance and general Cummins information are available by calling 1-800-DIESELS Monday through Friday from 7:00 a.m. to 7:00 p.m. EST
- The largest parts and service network in the industry with over 3,500 authorized repair locations throughout the U.S. and Canada
- Certified motorhome repair locations
- Accelerated problem diagnosis at every Cummins QuickServe location
- 24/7 access to Cummins
  - 1-800-DIESELS (1-800-343-7357) – select Option 3 for service location assistance any time of the day or night
  - Log on to [everytime.cummins.com](http://everytime.cummins.com) and click the "Service Locator" link in the top bar for 24-hour service location assistance



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Bulletin 4971102 Printed in U.S.A. 4/07  
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