



**EVERY™ DESTINATION.**

**ISL 400**



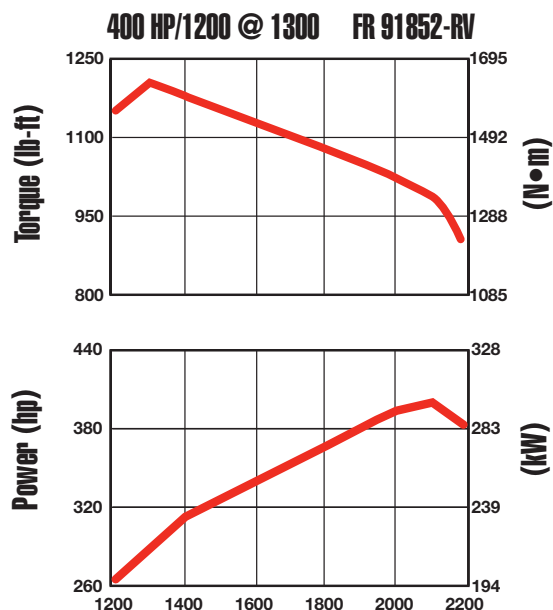
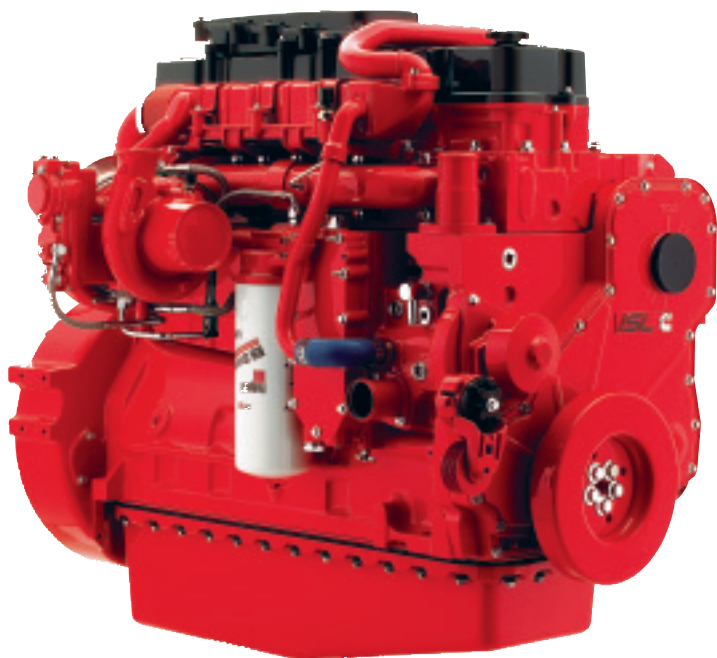
**FOR MOTORHOMES**

# FOR MOTORHOMES.

## ISL 400

Cummins ISL 400 is the ideal engine for larger luxury motorhomes. It has the power to accelerate at any speed and 1200 lb-ft of torque to let you quickly climb the steep grades even when towing. The ISL also has a very stout engine brake which provides greater peace of mind on those steep downhill runs. Plus, the extra braking capacity reduces wear on your service brakes, lengthening service intervals and saving you money. And with 20,000-mile (32,000 km) oil change intervals, the ISL 400 makes your travel budget go further.

The ISL 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 ISL delivers on the performance and value expectations of the motorhome owner. And the ISL does it while being certified and compliant to the toughest standards, the 2007 EPA emissions regulations.



### Specifications

ADVERTISED HORSEPOWER	400 HP	298 kW
PEAK TORQUE	1200 LB-FT	1627 N•M
GOVERNED SPEED	2200 RPM	
CLUTCH ENGAGEMENT TORQUE	550 LB-FT	746 N•M
NUMBER OF CYLINDERS	6	
OIL SYSTEM CAPACITY	7.3 U.S. GALLONS	27.6 LITERS
SYSTEM WEIGHT	1,685 LB	764 KG
ENGINE (DRY)	1,635 LB	742 KG
AFTERTREATMENT*	50 LB	23 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
- Low cost of ownership
  - 20,000-mile (32,000 km) or 12-month oil change intervals
  - “No-adjust” 150,000-mile (241,500 km) engine overhead

## Enhanced Reliability And Durability.

The Heavy-Duty Cummins ISL is designed for years of dependable use with design features unmatched by other engines offered in the same class of motorhomes.

- Replaceable mid-stop cylinder liners
  - For ease of rebuilding and longer engine life
- Articulated (steel top) pistons
  - Stronger for longer life
  - Improve piston ring life
- Targeted piston cooling
  - Lowers piston temperatures for long life
  - Heavy-duty feature
- Roller camshaft followers
  - Extend camshaft life
  - Similar in design to ISX and ISM Heavy-Duty engines
- Combination full-flow/bypass lube oil filter
  - Delivers better filtration for longer component life

## Equipment That Makes A Difference.

- Cummins 18.7-cfm air compressor is standard
- Water-in-fuel sensor alerts drivers of contamination that could cause performance and durability problems
- Road Relay™ 4 is an onboard monitoring system that provides the driver with trip information such as mpg, engine fault details and optional anti-theft protection

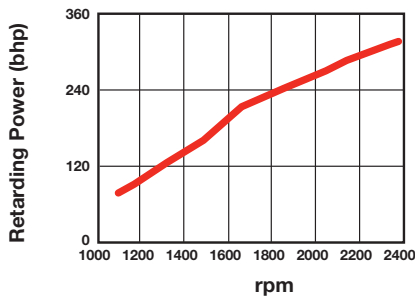


## Electronic Features.

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 ISL has every diagnostic, maintenance-monitoring and engine protection feature that you need.

## Engine Braking.

C Brake™ by Jacobs® is a compression brake designed specifically for the ISL that significantly increases stopping power and reduces wear on service brakes.



## ISL Maintenance Intervals.

	MILES KILOMETERS	MONTHS
OIL AND FILTER	20,000 32,000	12
PRIMARY FUEL FILTER	20,000 32,000	12
SECONDARY FUEL FILTER	40,000 64,000	12
COOLANT FILTER	NONE*	NONE*
OVERHEAD ADJUSTMENT	150,000 241,500	48
COALESCING FILTER	80,000 128,000	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 ISL 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):

- 5 years or 100,000 miles (160,935 km), whichever comes first
- Includes parts and labor and progressive damage resulting from engine failure due to defects in material or factory workmanship
- Covers towing for the first year
- Complete warranty details are provided in Cummins Bulletin 3381340

### Optional Extended Coverage Plans:

- 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 [quickserve.cummins.com](http://quickserve.cummins.com).

## Works With Eaton VORAD® Every Feature.



Cummins engines are compatible with all the advanced features of Eaton's VORAD accident avoidance system. These include Always Alert® road monitoring, BlindSpotter®, and SmartCruise® which automatically keeps your motorhome at a safe following distance when using cruise control.

## 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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