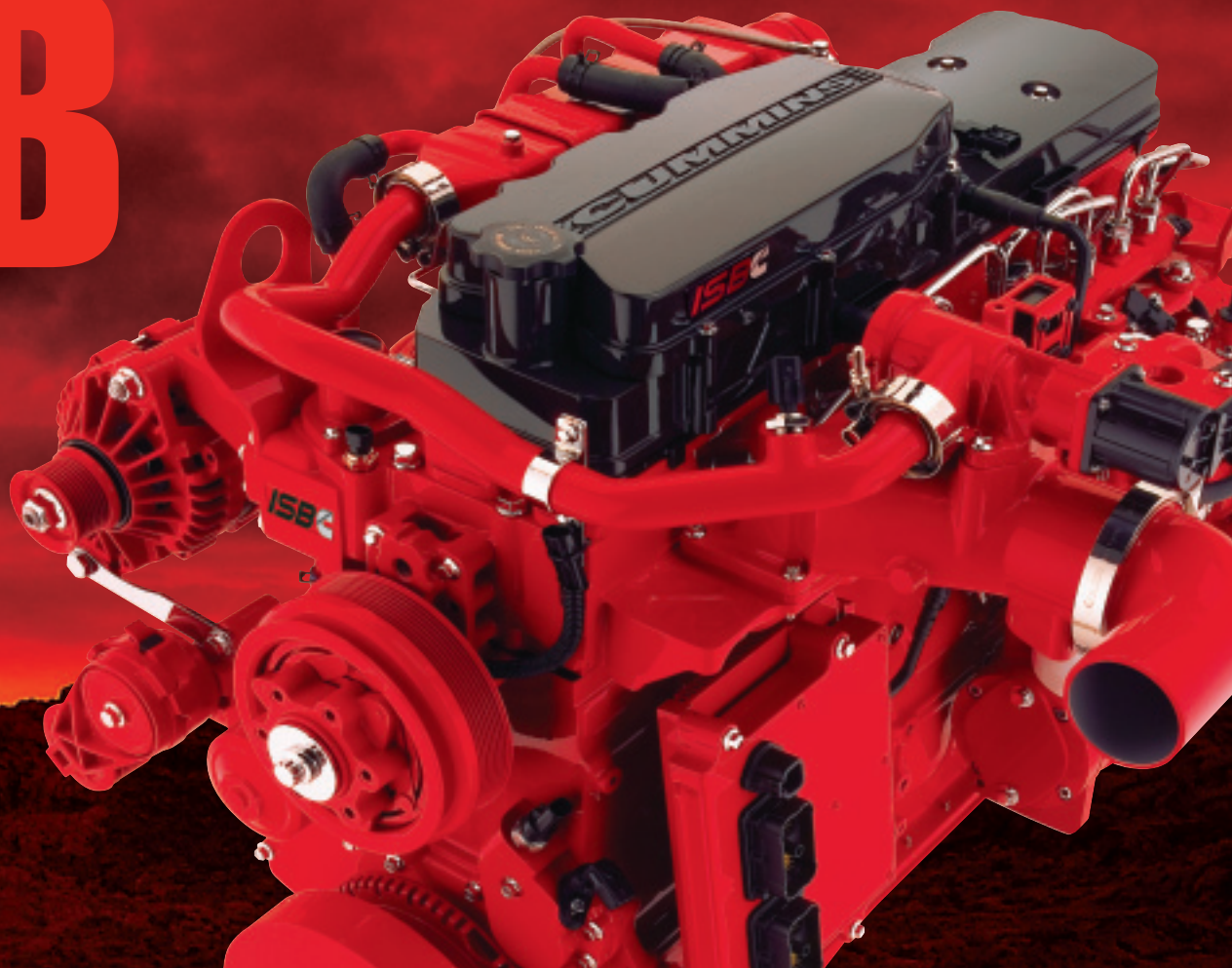




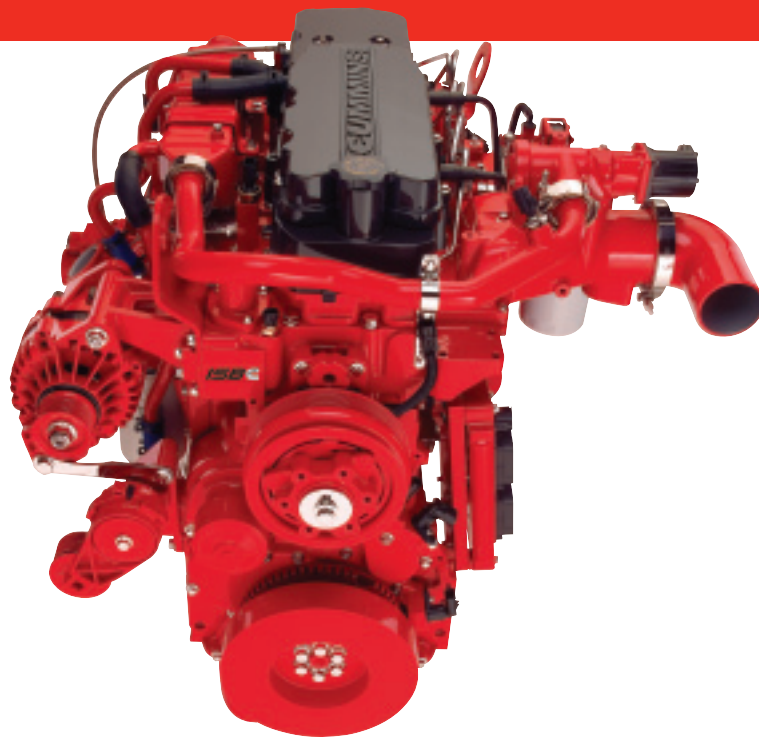
**EVERY<sup>TM</sup> ROUTE.**

**ISB**



**FOR SCHOOL BUS APPLICATIONS**

# SCHOOL BUS APPLICATIONS.



The Cummins ISB is the perfect engine to power your school bus. Reliable, efficient and quiet, the ISB delivers the power you need to transport students on time, safely and dependably.

Cummins B Series family of engines has long been the preferred choice of school bus operators. The ISB EPA '07 takes this legendary family a leap forward. Exhaust emissions are reduced by 90%. Ratings are increased to 325 hp. Yet the ISB EPA '07 maintains its excellent fuel efficiency.

To achieve this balance of improved emissions and performance, we've increased the displacement, enhanced the electronic engine controls, added a Variable Geometry Turbocharger (VG Turbo) and increased the number of injection events per combustion cycle. These upgrades enhance the position of the ISB as the quietest engine in its class, a big safety factor in school buses, along with improving vehicle performance. Plus, the ISB continues to lead its class with the lowest total cost of ownership.

At 6.7 liters (a 13% increase in displacement), this new ISB delivers increased power, performance and productivity. Enhancements to the High Pressure Common Rail fuel system deliver the optimum balance of performance, emissions control and fuel economy across the entire operating range. The aftertreatment system is designed to operate automatically, with no impact on vehicle performance.

## Ratings

ENGINE MODEL	ADVERTISED HORSEPOWER (kW)	PEAK TORQUE LB-FT (N•M) @ RPM	GOVERNED SPEED
ISB 325	325 (243)	750 (1017) @ 1800	2600 RPM
ISB 300	300 (224)	620 (841) @ 1600	2600 RPM
ISB 280	280 (209)	660 (895) @ 1600	2600 RPM
ISB 260	260 (194)	620 (841) @ 1600	2600 RPM
ISB 240	240 (179)	620 (841) @ 1600	2600 RPM
ISB 240	240 (179)	560 (759) @ 1600	2600 RPM
ISB 220	220 (164)	520 (705) @ 1600	2600 RPM
ISB 200	200 (149)	520 (705) @ 1600	2600 RPM

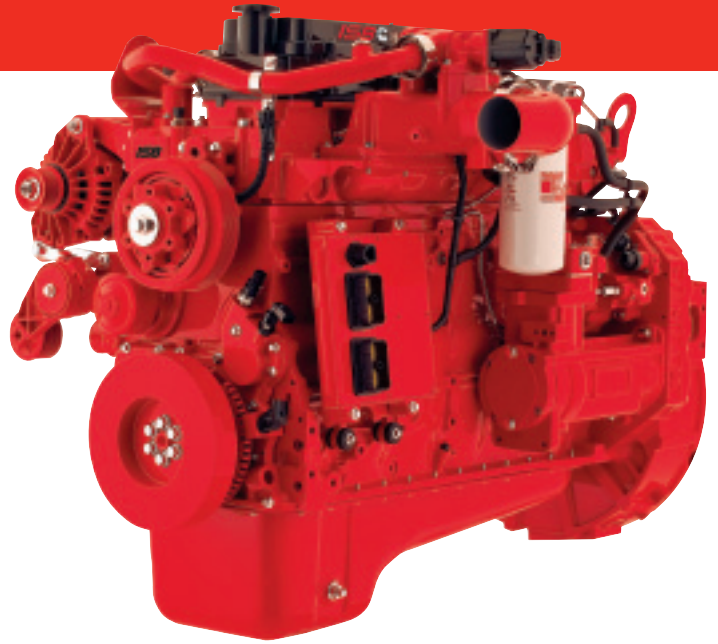
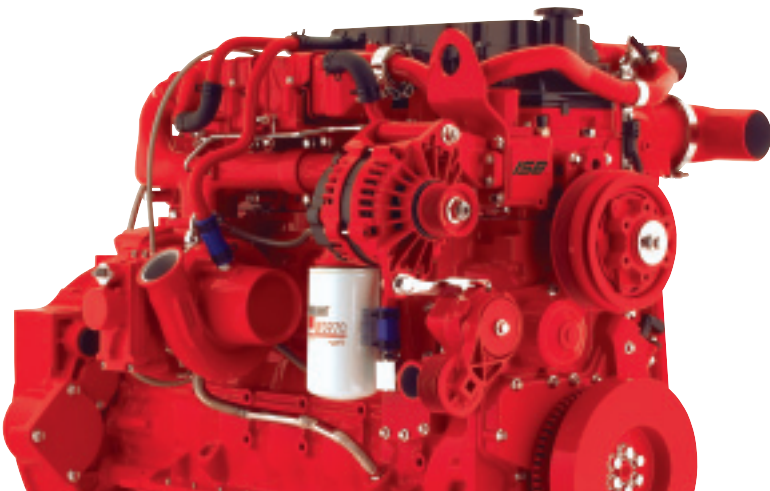
## Specifications

ADVERTISED HORSEPOWER	200-325 HP	149-243 kW
PEAK TORQUE	520-750 LB-FT	705-1017 N•M
GOVERNED SPEED	2600 RPM	
CLUTCH ENGAGEMENT TORQUE	400 LB-FT	542 N•M
NUMBER OF CYLINDERS	6	
OIL SYSTEM CAPACITY	4.0 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.

## Features And Benefits.

- Responsiveness and Reliability – The VG Turbo features enhanced response and control with electric actuation for infinite adjustment, providing exact boost across the operating range. The patented sliding-nozzle design increases reliability, durability.
- Quietest Operation – An increased number of injection events per combustion cycle along with a rear gear train design keep the ISB the quietest diesel in its class, providing increased safety and driver comfort.
- Exceptional Power-to-Weight Ratio – Up to 325 hp and 750 lb-ft of peak torque, from an engine that weighs just 1,150 lb.
- Lower Operating Costs – Lowest total cost of ownership over the 15-year life of your school bus. Optimized to provide exceptional fuel economy, long maintenance intervals, ease of repair and cost-effective overhaul options.
- Clean, Efficient Operation – High Pressure Common Rail fuel injection and cooled Exhaust Gas Recirculation (EGR) combine with the Cummins Particulate Filter to ensure complete combustion while reducing particulate matter by more than 90%. The total package from air intake to exhaust has been designed and manufactured by Cummins for uncompromising performance and reliability with minimum maintenance.



## Electronic Features.

The electronic hardware and software on the ISB use a common architecture with all other Cummins engines, technology that is time-tested and proven. Plus, the ISB has every diagnostic, maintenance monitoring and engine protection feature that you need.

## Dependability. Every Day And Every Year.

Cummins ISB is designed for years of dependable service. The proven B Series block has been designed for even greater structural capability. Targeted piston-cooling nozzles lower piston temperatures for increased durability in lower ratings, while gallery cooling achieves the same goal in higher horsepower ratings. Plus, it features a state-of-the-art Fleetguard® oil filter for extended component and engine life.

## Optional Equipment.

- You can replace the standard 15.2 cfm WABCO air compressor with either an 18.7 or 30.4 cfm unit.
- Water-in-fuel sensor alerts drivers of water buildup in the fuel filter. This is a warning sign that there may be excess water in the fuel, which could cause performance and durability problems.
- An innovative oil level sensor operates like an electric dipstick, eliminating the need for the daily check of oil level.
- A larger 18-quart oil pan allows longer oil change intervals.

## ISB Maintenance Intervals.

	MILES KILOMETERS	HOURS	MONTHS
OIL AND FILTER	15,000 24,000	500	6
FUEL FILTER	15,000 24,000	500	6
COOLANT FILTER	NONE*	NONE*	NONE*
OVERHEAD ADJUSTMENT	150,000 241,500	5,000	48
COALESCING FILTER	60,000 90,000	2,500	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.

The Cummins Particulate Filter is designed to last the life of your engine. Regeneration is fully automated and controlled by the ECM. See Owner's Manual for complete details.

## Every Repair.

- **INSITE™** – For years Cummins INSITE software has been making it easy for technicians to troubleshoot, repair and service our electronic engines through easy-to-follow steps on your computer. Providing the kind of uptime you demand from your buses.
- **QuickServe® Online** – Gives Cummins school bus fleets rapid access to parts and service information for over nine million engine serial numbers. Part numbers and diagrams, maintenance information and service bulletins, warranty details and more are available every minute of every day via [quickserve.cummins.com](http://quickserve.cummins.com).



## Every Confidence.

Cummins base engine coverage for school buses is 5-year/100,000-mile (160,935 km) total coverage, with 3-year/300,000-mile (482,804 km) major components coverage. Coverage includes full parts and labor on warrantable failures, and all consumables not reusable due to covered failure, with no deductible.



## Every Coverage.

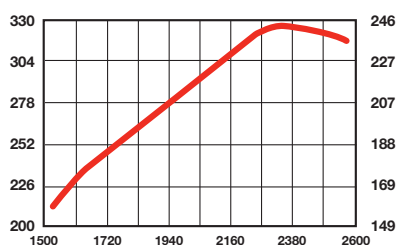
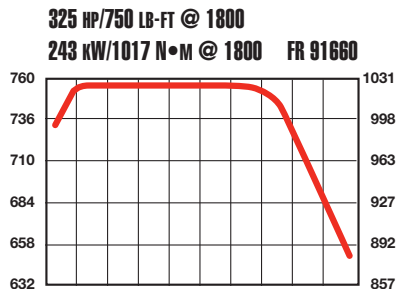
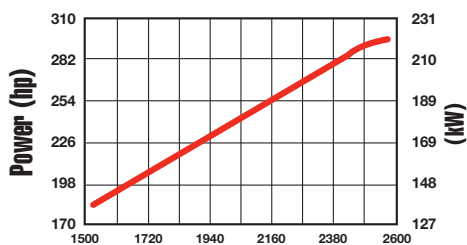
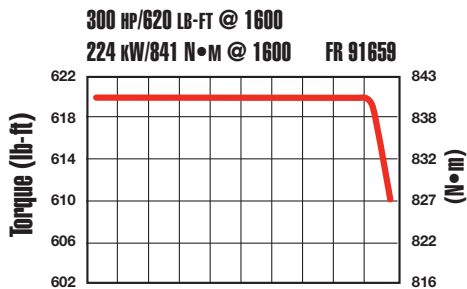
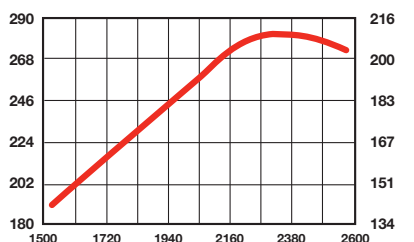
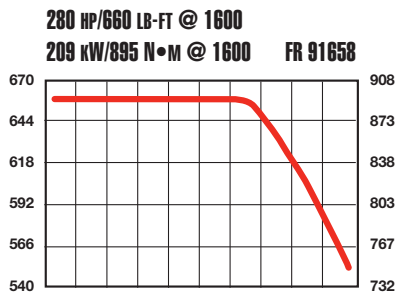
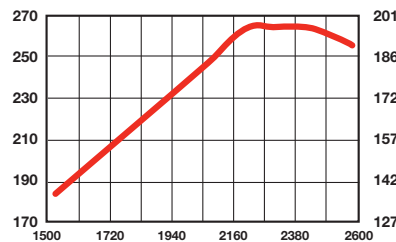
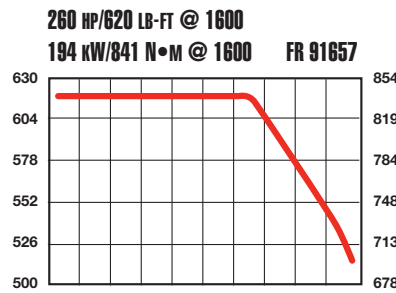
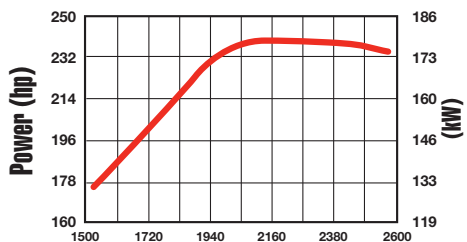
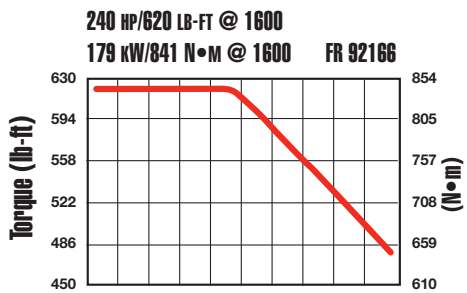
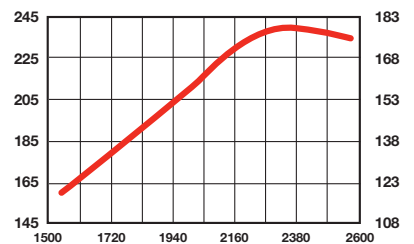
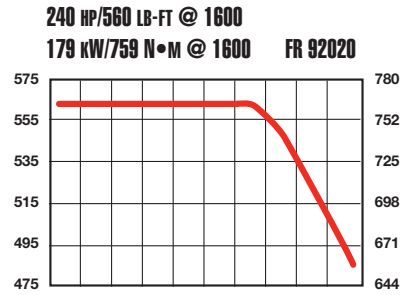
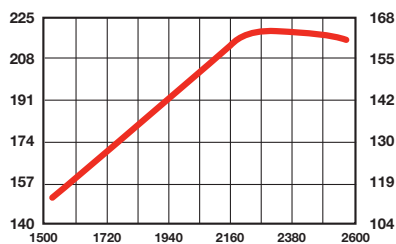
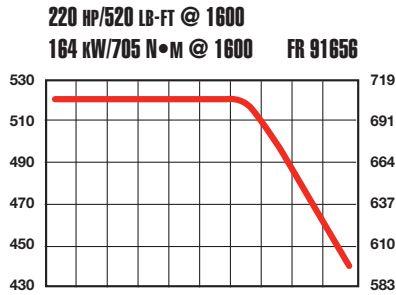
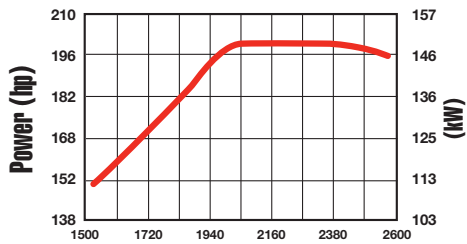
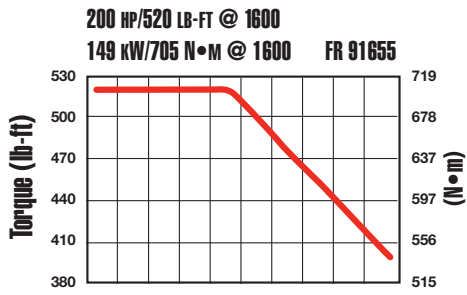
Cummins offers extended coverage options on the ISB engine that are among the best in the school bus industry. For specific details, contact your local distributor.



## Every Question. Answered.

- **Service Network** – Cummins engines are backed by nearly 3,500 authorized parts or service outlets in North America.
- **Customer Assistance Center** – Call the Cummins specialists for technical assistance and service locations at 1-800-DIESELS (1-800-343-7357).
- **Cummins E-Mail** – For online assistance to Cummins-related questions, click the Contact Us link in the header at [everytime.cummins.com](http://everytime.cummins.com).
- **Cummins Web Site** – For product literature or additional information, log on to [everytime.cummins.com](http://everytime.cummins.com).
- **Cummins Online Registration** – Register all your Cummins engines quickly and easily at [everytime.cummins.com](http://everytime.cummins.com) to ensure quality parts and service for your engine.

# ISB TORQUE AND POWER CURVES.



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



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